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RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

SATURDAY, JULY 26, 1856.

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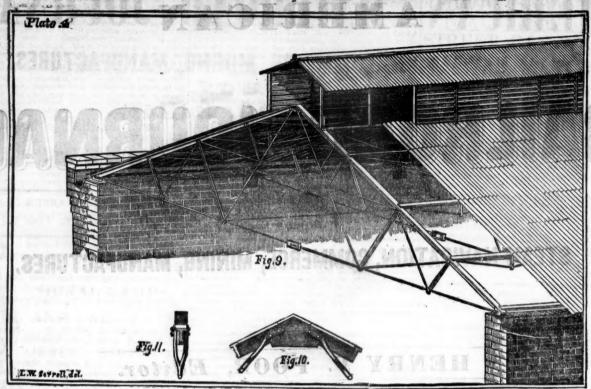
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Plain sheets are prepared to ay on boarded roofs (such as have had the coverings) by making a flute on the side so as to fasten to a wood roll, reaching from ridge to caves and placed between each tier of sheets, see figs. 6 and 8 below. The transverse joints are secured as shown by fig. 7.

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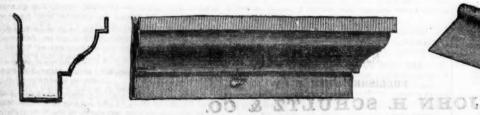
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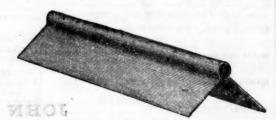


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MERICAN RAILROAD JOURN

STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

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MESSES. ALGAR & STREET, No. 11 Clements Lane Lombard Street, London, are the authorised European Ag

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American Railroad Journal

PUBLISHED BY J. H. SCHULTZ & CO., No. 9 SPRUCE ST

New York, Saturday, July 26, 1856.

Pacific Railroad of Missouri.

We give below the recent exhibit of this important work. The whole road will be something over six hundred miles long, and will cost some \$20,000,000. The main line occupies a route on which a large business is already developed .-The South-western branch, which takes the greater part of the lands granted by Congress, runs through an excellent, though rather thinly settled country; and which is one of the richest in the United States in copper, lead and coal. We believe this route possesses all the elements necessary to furnish a lucrative traffic. We commend the statement of the company to the careful attention of the public, and hope soon to see the company in a position, which shall enable them speedily to accomplish the great undertaking.

SYNOPSIS OF LAWS.

The Pacific railroad was incorporated by an act of the General Assembly of the State of Missouri, approved March 12th, 1849; the act authorized the formation of a company, with a capital of ten millions of dollars, divided into shares of one hun-dred dollars each, for the construction of a rail-

and St. Joseph railroad, approved February 22d, 1851, a loan of the credit of the State, to the amount of two millions of dollars, was granted to this road, for which, bonds of the State, having twenty years to run, and bearing six per cent. interest per annum, were to be issued to the com-pany, in sums of fifty thousand dollars, upon satisfactory evidence being furnished the Governor at each application that a like sum of fifty thousand dollars had been expended by the company, of money derived from sources other than State bonds; thus limiting the use of State credit to one-half the cost of the road, the company to pay the interest and principal of the bonds issued to them, to secure which, the act gives the State a first mortgage upon the road.

At the same session of the Legislature, an Act was passed, approved March 1st, 1851, amendatory of the act of incorporation, taking off the restrictions requiring a location through Jefferson city and terminating in Cass county, and in lieu thereof, allowing the company to locate upon any line from St. Louis to the western boundary of the State, and otherwise enlarging and defining the

powers of the corporation.
On the 10th of June, 1852, an Act of Congress was passed, granting to the State of Missouri, equal to six sections of land per mile, for the con-struction of a railroad from St. Louis to the western boundary of the State.

By an Act of the General Assembly, approved December 25th, 1852, the land above mentioned was granted to the Pacific railroad, for the construction of a road from St. Louis, along the main line of the Pacific railroad, to a point east of the Osage river, and then on a line of road striking the western boundary of the State south of the Osage divergence from the main trunk line, as the South

The same act provided for a grant of one mil-lion, of State credit, to aid in the construction of the Southwest Branch, upon certain conditions therein named. It further provided for the loca-tion of the main trunk line via Jefferson city, thence by the mest practicable inland route thro' Johnson county, and terminating at any point the company might select in Jackson county, provided the sum of four hundred thousand dollars should be subscribed to the capital stock, by the counties along the line, west of Jefferson city.—
The same act granted a further loan of one million, of State credit, to aid in the construction of the Main Trunk Line.

road from St. Louis, via Jefferson city, to some point on the western boundary of the State, in what is now Cass county.

At the same session, a general railroad law was and land, subject, however, to the mortgage above passed, authorizing the formation of railroad cormentioned.

There is a further provision in the law, giving By an Act entitled, "An act to expedite the convigint of way, and requiring all railroad companies the right of pre-emption to settlers on the land of

struction of the Pacific railroad, and the Hannibal to adopt the gauge of five feet six inches for their and St. Joseph railroad, approved February 22th, track. This act was approved February 24th,

By an act approved the same day, the Pacific railroad was authorized to extend, construct and operate their road to any point west of the State boundary line.

By an act approved February 10th, 1855, the law in regard to issuing State bonds, was so amended, as to authorize their delivery to the different companies, in any amounts, by showing an expenditure entitling them to the amount applied for, and authorizing the companies to sell the bonds at the market price; the old law required each issue to be for fifty thousand dollars, which must be expended, and a like sum from other sources, before making a further application; it also required the bonds to be sold at not less than

The "Act to secure the completion of certain railroads in this State," which passed December 10th, 1855, grants to the Pacific railroad, for the construction of the Main Trunk road, a further loan of two millions of State bonds, and provides for the transfer of the million of dollars of State bonds, heretofore granted to the Southwest Branch, to aid in the construction of the main road, west of Jefferson city, the issue of bonds to be as two for one, on the expenditure of money derived from other sources.

By the same act, it was provided that the com-pany shall issue bonds to the amount of ten mil-lion dollars, for the construction of the Southwest Branch, secured by mortgage upon the Southwest Branch road, and about one million acres of land, and further, to aid the construction of this impor-tant road, it was provided that the State should guarantee three millions of the bonds thus providriver, at any point the company might select.— ed for, the proceeds of the guaranteed bonds to This road was to be designated from the point of be expended upon the first division of the road, extending from Franklin, to a point beyond the Gasconade river, 114 miles distant from where the branch diverges from the main road, the guaran-teed bonds to be issued in sums of one hundred thousand dollars, requiring an expenditure of fifty thousand dollars from other sources, for every hundred thousand dollars of guaranteed bonds.— But, in case of a sale of a larger amount than one hundred thousand dollars, at one time, the guar-antee shall be given, and the proceeds paid over to the State Treasurer, to be paid out to the com-pany upon the ratio of two for one expended from other sources. This act requires the first division of the Southwest Branch to be completed within three years from the 10th of December, 1855, under penalty of forfeiture to the State, of the road

on the first of November last, created a vacancy though not yet proven to be

the company outside of the six miles and within in that office, which was not permanently filled are the Gonerelly and Berthold mines, the Thom-fitteen miles. This will include about 40,000 until the first of June, 1856, by the election of as mine, Clark and Westover mines, Green's digfifteen miles. This will include about 40,000 acres that the company may have to sell, at \$2.50 per acre, to the settlers.

The law last mentioned, was passed, and sent to the Governor for his approval, who returned it

with his veto; the bill was then passed by the constitutional majority, through both Houses, WAS properly certified by the presiding officers, and deposited in the proper department with the other

The Governor's attention being called to what was supposed to be some irregularities in the passage of the bill after it was returned with his objections, he submitted the questions to the Attorney-General, who, upon technical grounds, declared the law invalid. To settle the question, an agreed case was made up, presenting the facts and records, and submitted to the Supreme Court, in the form of a petition for a mandamus against the Governor, requiring him to issue bonds to the Pa-

The Supreme Court unanimously decided the law to be valid, and in conformity with the re-quirements of the constitution, thus putting all questions as to the validity of the law, forever at

The law as passed is popular, and fully approved of by a large majority of the people of the State.

CONSTRUCTION OF SOUTHWEST BRANCH. The work on this road was commenced by Diven Stancliffe & Co., in September, 1855, under an old contract entered into with them in March, 1854, for the construction of the Branch road .-Since the passage of the railroad law of December 10th, 1855, this contract has been modified as to the manner of payments and the time of completion of contract, so as to conform to the requirements of the law.

By this contract, Messrs. Diven, Stancliffe & o. agree to build a first class railroad, including graduation, masonry, bridges, superstructure, ballasting, sidings, wood-sheds, water tanks, fencing, 6c., all specified in detail, and the work and material to be equal in quality to the work on the first division of the Pacific railroad, and the whole parts of the Merameo to warrant the erection of made satisfactory to the company's engineer.

The company having the right to put on force ing the products to market.

at contractors' expense, if they fail to press the The lead furnaces on the work; also, the right to step the work, or limit lows, to wit: Thews & Valli the amount at any time, by giving contractors products of the Mount Hope and Cove leads.— ninety days notice. Payments to be made month— These leads are vertical, and of good strength, and ly, as the work progresses, less fifteen per cent., which is retained as a guarantee for the faithful performance of the contract, to the extent of one hundred thousand dollars.

The contractors to receive, for construction of the whole road complete, the sum of seven mil-lions six hundred and seventy-one thousand six hundred and eighty dollars. This amount was based upon the engineer's estimate of quantities, and the contract provides for additional compensation to the contractors, if the quantities exceed the estimates; but they take the risk of rock or hard pan excavation, if the aggregate is within the quantity of yards specified in the estimates.

Great improvements have since been made, by a re location of a part of the line, embracing the heavy work, and no apprehension is now entertained of an excess in quantities, and the price named may be considered as the total cost of the

The company have the right to stop the work at any point within twenty miles of the State line, by giving notice to the contractors before they e commenced work on that portion of the line and in case the work is so terminated, the estimat ed value of that part of the work is to be deducted from the contract price of the road.

The company's title to the land will be complete when the road reaches a point within twenty miles of the State line, and the town of Neosho, it is expected, will be the present terminus of the

road.

Edward Miller, Esq., of Pennsylvania. Mr. Miller has not yet had time to examine the line of road, or report on the character of country thro' which it passes.

The Southwest Branch was surveyed and located during the year 1853, under the immediate charge of James K. Ford, Eq., now of New York.

The following remarks are extracted from Mr.
Ford's report to the Chief Engineer:

"For the more conveniently considering this subject, I have divided the portion of the State tributary to this road into three portions, each of which has its distributive characteristics of soil, mineral and agricultural products, and of the grades and curves on that portion of the road within its limits.

"The first division extends from the main stem of the Pacific railroad about forty miles from St. Louis, near the west line of St. Louis county, to the Gasconade river, at the mouth of Little Piney, a distance of about ninety miles. The line is mostly on the ridge, or divide, between the waters of the Meramec and those of the Bourbeuse; it descends the valley of Beaver creek to Little Piney, and down that stream to its mouth.

"The country traversed by and tributary to this portion of the road, is rich in iron, lead and copper, the Meramec iron works are within six miles of the road, and several mines of lead and copper

are now successfully worked.

"There are two iron works on the Meramec the Moselle, at the mouth of the Bourbeuse, and the Meramec or James' at the Great Spring, near the mouth of the dry fork of the Meramec.

"James' works consists of one furnace, several bloomeries and a rolling mill. Their ore banks are inexhaustible, and their iron of superior quality. Their water power is the best in the State. Another iron furnace has been commenced on the south side of the Meramec, near the Moselle works; but operations have been suspended for the pres-

furnaces, if proper facilities were afforded for send-

The lead furnaces on the Meramec, are as follows, to wit: Thews & Vallies', which smelts the These leads are vertical, and of good strength, and will produce a permanent yield of ore. I. N. Inge's furnace is 'Virginia Lead,' the richest and strongest vertical lead vein ever opened in the United States, but not worked very much now, for want of capital and mining enterprise to work it below its present levels, now about 260 feet from the surface, to which depth it has been worked by horse er. There are three other lead furnaces on the Meramec-Gallaher's, Hibler's and Chapman's. The yield of these furnaces is not known, as no steady mining is carried on in their vicinity, for want of the requisite capital, and mining experience to penetrate below the mere surface of the earth, and for want of transportation.

"No vertical lead veins have been discovered above the 'Virginia Lead;' but nearly every hill bordering the Meramec, from this point to the Courtois creek, a distance of about forty miles, will yield more or less lead; the formation being that of magnesian limestone, known as the 'lead bearing rock.' The lead ore, so far as discovered exists in horizontal layers, beds or veins (in this region) at different elevations, which have not been opened, except in a few instances. The mining now carried on consists in searching for the loose ore beneath the clay on the sides of the hills where its rocky inclosure has decayed, and left the ore free and easily to be obtained by the pick and shovel of the most inexperienced miner. When capital and mining experience are entered in business, it is believed the yields of lead ore on

the Meramee will be very large.

'In addition to the lead veins already referred
to, there are several other reins which yield well, The death of Mr. O'Bullivan the Chief Engineer, to, there are several other teins which yield well, on the first of November last, created a vacancy though not yet proven to be vertical veins. These

are the Gonerelly and Berthold mines, the Thomas mine, Clark and Westover mines, Green's diggings, Mineral Hill diggings, and Frank and William's mines—all of which yield well, when mined with judgment. There are two copper farnaces—one owned by the Stanton Copper Company of St. Louis; the other by the Meramec Copper Co. Only one, the Stanton Copper Company's has been in operation the last wear. in operation the last year.

"Each company own several valuable copper mines along the Meramec.

"Clark and Hibler also own several, which have been only far enough explored to show that they were valuable mines.

"Mr. A. Park is owner of several copper mines of value, and has been opening one or two the last year on the Indian creek, a tributary of the Meramec. None of these mines, except those of the Stanton Copper Company, have been opened deeper than can be done by a common hand windlass, yet the yield has in some instances been very promising. The Stanton Copper Company have been working with horse power the last year; and the rich yield of their mine has induced them to resort to steam power, in order to descend to greater depths, and richer ores.

"As an agricultural country, it is not equal to the region farther west; the ridges are rocky and not very fertile-but the valleys are very producone f that year. miles to Fc Arks then the J want ing t diffic and "(() and "followed a control on the followed a control

"The second division extends from the month of the Little Piney to Springfield, a distance of about one hundred and five miles. Immediately to the south, on the head waters of the Meramec, St. Francis, Big Black, and Current river, and on the tributaries of the Gasconade, are very extensive pine forests. The pine from the head waters of Indian Creek, the Bazile, and Curtois will find its way to market over the South-western Branch, though it lies from twelve to twenty miles from the line of road. But the largest portion, for the present, will come from the Piney Creek, and other parts of the waters of the Gasconade. It is estimated that there are from thirty to forty pine saw-mills on these waters, the products of which, sent down the river, are from three to four million feet annually. The dangers and uncertainties of the river navigation operate to the serious injury of this trade. Some of the large lumber dealers were nearly ruined last year, by the loss of rafts on the Missouri. There is a good reason for believing that all the lumber sent to St. Louis will seek conveyance by the railroad, and in addition a large business be established for the broad prairie plains of the South-west

"The line after leaving the valley of the Gasconade, lies upon the ridge between the Osage and Gasconade. From this westward the character of the country begins to change, the ridge be-comes broader, the declivities are less abrupt, the valleys wider, and a larger proportion of the land seems to be fertile and productive. I am not aware of any minerals having been discovered in

this division

"The third division extends from Springfield to the State line, a distance of about ninety miles. About thirty miles west of Springfield, the line eaves the summit between the Osage and White river waters; and passing down one branch of Spring river, and up another, it crosses into the valley of Clear Creek, down that to Shoal Creek, and down that to the mouth of Hickory Creek, near Neosho; then up a small tributary of Hickory, to the head of Lost Creek, and down that tream to the State line, at a point about twentyfive miles north of the Arkansas line.

"The region traversed by this division is of the richest and most fertile nature; broad prairies slightly undulating, wide valleys, gentle declivities of varied character, but all fertile, constitute the greater portion of this part of the State. Near Neosho, the line passes through an immense de-posit of lead ore, which has been found to extend over an area of more than five hundred square miles. The ore is exceedingly abundant, and easily mined; it yields over 70 per cent of lead, of the best and softest quality. At present only

s furnace is employed in smelting the lead, and that is only worked two or three months in the year. The pigs are hauled in wagons twenty miles to the Neosho river, sent in flat-boats down to Fort Smith, and thence in steamboats down the to Fort Smith, and thence in steamboats down the Arkansas, and Mississippi to New Orleans, and thence by sea to New York. This can only be done for a few months in the Spring; and though the profits are sufficiently remunerative, the great want of capital has hitherto prevented the works. ing these mices to any great extent. It would be difficult to estimate correctly the amount that would be made and sent to market, were there a regular, cheap and speedy communication by rail-road with St. Louis.

"Coal is also found in the vicinity of the line, and Shoal, Hickory, and Spring creeks on the both, and Buffalo on the south, afford abundant applies of power for machinery."

Beyond the terminus lies a vast and fertile ter-

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titory, now inhabited by the numerous Indian ribes accumulated there by the policy of the Government. Many of these tribes are partially civilized, and engaged in agriculture. Immediately ately beyond lay fields of salt, and thousands of cres covered with gypsum.

The settlement and improvement of the country along the line of road, since the date of Mr. Ford's report, has been rapid and encouraging. Emigrants, led by the beauty and fertility of the country, and encouraged by the prospects of an outlet to market by railroad, have flocked thither lo great numbers, such as to nearly double the population of some counties in three years, and make new developments as to the value and importance of that part of the State.

The most rugged and broken country on the ine is in the region of the Gasconade river, and extending about forty miles, being from the point where the road begins to descend towards the river, to where it reaches the top of the ridge be-

rond the Gasconade

Although not presenting the beautiful and un-dulating prairies that abound on other portions of the line, yet even here the soil is rich, abounding in the best of timber, and of large size—such as in the best of timber, and of large size—such as oak, walnut, maple, hickory and ash—all valuable for the St. Louis market, and will be available for that purpose.

that purpose.

The bottom lands along the Gasconade, although irregular, are very fertile, producing the finest of corn and other grains.

As the road approaches Lebanon, it enters apon a plateau of beautiful upland, known as the divide between the Osage and Gasconade. Extending southwest, it expands, separating the waters of White river and Osage, and, further on, the waters of the Neosho from those of White river and Osage, forming an extent of table land river and Osage, forming an extent of table land scarcely equalled in extent and beauty in any part of the West. The division into prairie and wood land is most propitious—about two-thirds prairie and one-third timber. None of the prairies are large, so that every farm must be convenient to timber. Running springs afford excel-lent water; the country is free from swamps, and considered healthy.

THE GREAT LEAD REGION.

The lead region near Neosho, as mentioned by Mr. Ford, is now being developed. Late discoveries have been made, and, at this time, several hundred men are engaged in digging for mineral, and with the most encouraging success. Extraroad office of the great value of the lands belonging to the company in that region for their mineral wealth. It is represented by intelligent citizens of that part of the State, that the lead mines extend over many thousands of acres of the company's land, and some tracts have been valued as being worth one thousand dollars per acre for the whole tract.

eent a written proposition to the railroad com-pany, proposing to lease one tract of land for ten years, and pay one thousand dollars per year, rent, for the privilege of working the mines on e same.

The company expect to have the mining region thoroughly examined without delay by the State Geologist, (Professor Swallow,) and learn, as far as practicable, the extent and value of the mines situated on their land.

From the information derived from various ources within the last three months, no doubt is entertained that the company own many thousand acres of land of tenfold more value than heretofore estimated.

There is said to be one remarkable feature about these mineral lands—they are generally rich agricultural lands. Lead deposits are often found in the most fertile prairies. The writer of this might be justified in using more positive terms in speaking of the extent and value of these mines, as the information derived from various sources all goes to confirm the most extravagant statements of their extent and richness, but he prefers to await the scientific and detailed report by Professor Swallow.

THE EXTENT OF COUNTRY ON THE SOUTH-WEST BRANCH.

Mr. Ford, in his report, estimates the extent of country tributary to the South-west Branch as equal to nineteen thousand four hundred and fifty quare miles-a territory larger than the three States of Vermont, Massachusetts and Rhode Island; and an examination of the map will satisfy any one that this estimate is not exaggerated, as the geographical formation of that region must the geographical formation of that region must always make the country now tributary to that line of road remain so. It embraces a part of the counties of Franklin, Washington, Gasconade, and Miller, and all of the counties of Crawford, Dent, Pulaski, Camden, Leclede, Texas, Wright, Dallas, Hickory, Cedar, Polk, Dade, Jasper, Green, Law-renee, Ozark, Taney, Stone, Barry, McDonald, and Newton; to the country thus tributary may be added the counties of Washington, Benton, and Madison, in Arkansas, the southern end of Kansas Territory, and the Indian Territory north of the Arkansas river. Arkansas river.

THE MEANS FOR CONSTRUCTING THE SOUTH-WEST

The lands granted to the Company for the construction of a road from St. Louis to the western boundary of the State amount to 1,167,000 acres; of this amount, 127,000 acres belong to the main road, being for the first thirty-seven miles of road between St. Louis and the commencement of the branch road, leaving one million and forty thousand acres as belonging to the branch road.

The Company have executed a mortgage upon this land, and also including the road to be constructed, to secure the payment of ten million dollars of the Bonds of the Company, payable in twenty years, with seven per cent. interest, pay-

able semi-annually.

Of these Bonds, the State of Missouri guarantees the payment of three millions of dollars, requiring the proceeds of said guaranteed Bonds to be expended in the construction of the first division of the road.

The proceeds of the ten million Bonds thus se

ured will build and equip the road.

In addition to this, the sum of \$358,300 has een subscribed by counties and individuals along the line, payable in cash; these subscriptions will be collected within the next three years, and can be appropriated to paying interest on bonds used in the construction of the first division: the completion of the first division will ensure the payment of interest from the receipts of the road.

The lands granted to the road have all been selected, and the selections approved by the department at Washington. The examination and classification was commenced last year, under the distribution was commenced to the distribution of the distribution was commenced to the distribution of the distribution Miners' claims for discoveries (being the privilected, and the selections approved by the departises of digging upon the company's land) have ment at Washington. The examination and classes sold at \$1,200 and \$1,500 for 150 ft. square, sification was commenced last year, under the distillect; of course, to such rent as the company rection of Mr. O'Sullivan, but little progress had may claim. A few weeks ago Messrs Harklerodes been made before his death. Since then, the as-

sistant in charge of that department has be

gaged on other work.

An immediate organization of the land department is contemplated, and competent men will be selected to examine and classify the lands in each county. When thus examined and classified, they will be valued according to classification; that is, a minimum value will be fixed upon each class.

These classifications will embrace:

1. First class mineral and coal lands, known to be very valuable from development of ores and

2. Second class mineral lands, known to abound

in mineral, but not yet fully explored.

3. First class agricultural lands near the line of road, town sites and lands near the towns.

4. First class agricultural lands, equally fertile, but further from the line of road.

5. Second class agricultural lands, and lands distant from 12 to 15 miles from the road.

6. Lands along and near the Gasconade, convenient to the road, and valuable for the timber.

venient to the road, and valuable for the timber.

7. Third class farming lands, being broken and inferior land, and land distant from the line of road. This class would not embrace more than 150,000 acres, worth from two dollars and fifty cents to five dollars per acre.

Under the law of 1852, giving the land to the railroad company, the right of pre-emption is granted to actual settlers, at \$2.50 per acre. From the returns made this will take 90,000 or 100,000 acres of the land. The law of December 10th, 1855, extends the right of pre-emption to certain settlers outside of the six miles, and within the fifteen miles, at the same price. This will cover about 40,000 acres more.

about 40,000 acres more. Agricultural lands between Lebanon and Spring-field, and beyond Springfield, range in price from \$5 to \$25 per acre, and have been sold at the highest figure named, notwithstanding the great distance they are situated from market. The opening of the road must make all the land that region equal in value to any part of the

A low valuation of these lands will swell the aggregate to over ten millions of dollars, and perhaps, no lands in the West will be more enhance in value by the construction of a railroad than those of the South-west. At least one-half the land can be put down as choice agricultural lands, worth from \$8 to \$25 per acre.

The inferior agricultural lands are nearest St.

Louis, and their proximity to market, will contri-bute greatly to give them an increased value. The report upon the mineral lands, it is believ-

ed will astonish the most sanguine in showing their immense value. So far as the guaranteed Bonds are concerned, the value of the lands or road, when built, is of little consideration, as the assumption and guarantee of the State makes them perfectly secure as an investment.

THE STATE OF MISSOURI

contains an area of 67,380 square miles, being only 414 square miles less in extent than the four States of New York, New Jersey, Connecticut and Massachusetts combined. From the extent and uniform richness of its soil, it is susceptible of producing twice the amount of agricultural products of the four States named.

It is larger in extent than the six New England States. It has a front on the Mississippi river of five hundred miles. The Missouri river meanders through the State from West to East, over three

hundred miles.

The agricultural productions of this State are equal to any in the West. The hemp, tobacco and wheat of Missouri have a reputation in every market for their superior qualities.

The State abounds in mineral as well as agri-

cultural wealth.

cultural wealth.

The Iron Mountain is noted for the vast quantity and quality of its ores. It has been estimated that over two hundred million tons of ore, thrown up by volcanic action, now lie above the level of the valley in which it is situated. Thousands of tons can be picked up by hand as needed for use.

The Pilot Knob, near by, presents an equal

amount of ore in a more compact form, but easily procured by blasting. Lead, copper, zinc, and other metals, are found in different parts of the State. Coal of fine quality is abundant. Cannel coal is found in large quantities in the counties of Ualaway, Cale, Cooper and Saline. Bituminous coal is found in various parts of the State in great

known ic	POPULATION OF MISSOURI.
In 1820.	66,586
1830.	140,455
1840	
1850.	
1856	(estimated from reliable data) 900,000
The state of the s	The second secon

Of this population only about 10 per cent. are slaves, being a less ratio than any slave State in the Union, Delaware excepted.

THE STATE DEST.

The debt of the State, on her own account, being in part for the capital stock of the Bank of the State of Missouri, now worth a premium,) is

Bonds issued to the Railroads, for which the State holds a first lien on the roads on which the

bonds are expended; \$8,200,000.

Bonds authorized by law to be issued to the different railroads, the issue of which will extend through the next five years, \$8,050,000.

PROVISION FOR STATE DEBT.

The act of December 10, 1855, requires all the railroads entitled to State bonds to set apart a sum each year, as a sinking fund, which will be sufficient to pay off the bonds as they mature. At the same session an act was passed providing for a State sinking fund, to guard against any delin-quency of the companies. Out of this fund the Treasurer is to pay interest upon the State bonds or bonds guaranteed by the State, whenever necessary, to maintain the faith and credit of the

STATE REVENUES.

The rate of taxation for State purposes is onetwentieth of one per cent., and this is collected upon a very low valuation of property. A continued surplus in the treasury for the last six years has not made it necessary to scrutinize the sessments of property as made.

Total revenue of 1854, (last report of Auditor,)

\$429.872.34.

Annual expenditure for ordinary purposes of Government, about \$97,000.

Twenty-five per cent. of the gross revenue is appropriated to support of common schools.

THE CITY OF ST LOUIS

The city of St. Louis is the great commercial metropolis of the Mississippi valley. A glance at the map will show the importance of it, central location upon the great river of the continent; and the statistics of its growth will show that its position has been fully appreciated by our enterprining people.

Population in	1830, 6,69
the fact the second	1840, 16,649
THE BURE TO	1850, 74.439
a ausco Minig. K	1856, (February,)121,867

The city is now rapidly improving; over three thousand houses will be built within the year

PACIFIC RAILROAD.

The Pacific Railroad proper, as located from St. Louis, via Jefferson city, thence through Monetean, Cooper, Pettus and Johnson counties, and terminating at Kansas, in Jackson county, was commenced in August, 1851. The work between St. Louis and Jefferson city was very heavy, much of it rock excavation, including four long tunnels. The failure of contractors, the advance in the price of labor and materials, the visitations of cholera, for three seasons, along the line, and the want of means to meet the increased cost of the work, all tended to delay the completion of the road to a paying point.

the road to a paying point.

The road was opened through from St. Louis to
Jefferson city, about the first of March, 1856—a
distance of 125 miles. Since that the trains have

run regularly between these points. The road is now in first-rate condition, and will, from the first of July, pay interest upon the cost of construction. The work is under contract, west of Jefferson city, and it is contemplated to have forty miles further completed by the first of June next; this will add greatly to the business of the road, and make it a paying stock.

The expenditures on the main Pacific road to June 1st, 1856, amount to seven million four hundred and twenty-five thousand dollars. Of this amount, three millions were derived from the capital stock paid in; the balance from the sale of State bonds.

There is yet due on subscriptions west of Jef-ferson city, and applicable to the construction of the main road, seven hundred and thirty-six thousand dollars.

The company own 127,000 acres of land appropriated to the construction of the main road. They have just issued ten-year bonds, secured by a mortgage upon this land, for six hundred thousand dollars, and expect to appropriate the pro ceeds of these bonds to the construction of the main road.

The company is entitled to a further loan of State bonds, to the amount of \$1,300,000, to aid in the construction of the main road. sources will extend the road one hundred miles beyond Jefferson city and, and insure a profitable business for the read.

ROLLING STOCK.

The company have twenty-six first-class locomotives; 17 1st class passenger cars; 4 2d class passenger cars; 2 mail cars; 4 baggage cars; 172 treight cars; 47 gravel cars, and 40 iron and hand

The company make their own cars, and have a commodious shop for repair of locomotives, and to do the work incident to the repair and running

Note-The different laws for the benefit of the Railroad have all been accepted by the company, in the form required, but it was not deemed necessary to delay this publication, to obtain copies from Jefferson city, as the issue of State bonds and guaranteed bonds by the State, under those laws, is evidence that the acceptance was on file. The main road and branch make a common stock.

The State required no bonus for transferring the grant of land to the railroad, and the road is exempt from taxation, "until the road is completed, opened, and in operation," and shall declare a dividend.

WM. M. McPherson, President P. R. R. New York, July 10, 1856.

Cape Cod Railway.

The annual meeting of the Shareholders was held on the 9th inst., and the following gentlemen were chosen directors for the ensuing year, viz: J. H. W. Page, Richard Borden, Benjamin Burgess, M. S. Lincoln, Alexander Baxter, Nathaniel S. Simpkius, and Matthew Starbuck. All the acts and doings of the directors for the past year, to secure the Nantucket travel, were endorsed by the shareholders.—The annual report presents the following facts:

The receipts of the Company from May 31, 1855,

to May 31, 1856 :—		
From Passengers \$88	178	98
" Freight 20	3,659	50
" Mails	650	00
Express	2,000	04
" Rents	221	78
"Wharfage	79	80
of the first division will ensure the pay	COLLE	102.5

Expenses for same period

Net income The net income from May 81, 1854, to May 31, 1855, was

Decrease of net income compared with

Commercial Tonnage of the United States We give from official documents, the following tabular statement, showing the amount of enroll ed and registered tonnage owned in the several

Northern States.	1851.	1854.	1856.
New York 1	,041,014	1,415,081	1,464,22
Massachusetts	694,402	916,074	979.21
Maine	536,315	686,100	806,60
Pennsylvania	284,373	361,827	397.76
Connecticut	116,179	129,818	137.18
New Jersey	88,895	105,047	121,01
California	58,435	102,257	92,26
Ohio	58,352	80,859	91,60
Michigan	41,774	56,849	69,48
Illinois	23,103	81,684	53,79
Rhode Island	38,050	45,911	51,03
New Hampshire	25,427	28,838	30,32
Wisconsin	2,946	14,217	15.62
Vermont	3,932	7,874	6,91
Indiana	******	2,952	3,69
Oregon Ter'y	1,063	1,192	1,19
Total, Northern	as to all	ungon men ub val dece	civilizard,

done de Brocc laid not t Perti or A Th will purp that were their £387 will is no estec the with

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185

Octo Nov Dec Jan Feb Man Apr Man Jun

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Total, Motthern	COLLEGE OF RIGHT STREET,	Delay on Jacks
States3,014,260	3,986,430	4,321,95
Southern States, 1851.	1854.	1855.
Maryland 204,54	4 220,208	234,80
Louisiana 252,28	4 187,073	204.14
Virginia 68,79	9 84,840	91,78
South Carolina 35,18	7 42,115	60,93
Missouri 34,06	5 48,575	60,89
North Carolina 43,78	2 67,800	60.07
Alabama 27,82	7 88,599	36,27
Dist. of Columbia. 22,90	35,982	34,58
Georgia 24,18	5 27,321	29,50
Kentucky 12,98		22,68
Delaware 11,88		19,18
Florida 9,37		14,88
Texas 4,91		8,80
Tennessee 3,58		8,40
Mississippi 1,40		2,47
no bon lettern wile and		DO THE

Total So. States. 757,170 809,264 859,032 We also give the tonnage of the several leading

Tonnage of various ports in the United States. 1851. 1853. 1854. 1855. 1855. New York. 931,193 1,149,133 1,262,798 1,298,284 495,879 Boston ... 842,986 450,492 Phila.... 222,428 252,451 268,746 293,806 N.Orleans. 251,900 158,184 183,818 200.886 Balt. 160,511 Bath, Me. 103,795 N. Bedfo'd.181,409 158,478 170.835 183,108 175,258 169,986 148,896 129,466 154 501 155,630 165,910 Waldob'ro.103,598 103,428 122,785 123,672 Portland .. 97,571 104,350 137,817 93,691 87,842 80,616 76,952 70,762 Pittsburg.. 53,784 79,361 84,870 S. Fran'o.. 58,063 97.699 93,519 78,748 65,184 Barnstable, 72,997 81,957 Buffalo.... 43,603 82,678 Belfast, Me. 44,835 56,422 55,899 Detroit 40,319 65,058 60,592 48,756 52,456 St. Louis.. 34,065 45,441 48,575 56,419 53,965 51,078 Charleston, 31,910 42,653 38,102 45,724 Penobscot, 40,809 44,991 Cuyahoga. 86,070 45,488 48,491 27,015 31,041 Chicago .. 28,108

Brockville and Pembroke (Ca.) Railway. We have much pleasure in informing our read-

ers throughout these United Counties, that the Counties Council, which terminated its labors last Saturday, has decided, as far as it is concerned, that the Municipalities should go on with the construction of the road themselves. The Municipality of Brockville has already signified its desire to do so; and Elizabethtown which had postponed coming to a decision until it had heard what course Lanark and Renfrew had adopted, will immediately follow in their footsteps. A meeting of the Directors took place yesterday at Brook ville, to take into consideration, with the com mittees appointed on behalf of the municipalities, the immediate prosecution of the work. If no unforeseen difficulty ensues, and we anticipate none, an immense amount of work can yet be done this fall. A sufficient quantity of iron can be delivered before the close of navigation at Brockville and Smith's Falls, so that rails can be laid down very early next spring, and we have not the least doubt but the cars will be running to Perth and Smith's Falls or Carleton Place by July

States, ollowing f enroll-several

1856. 464,291 979,210 806,605 397,767 137,180 121,019 92,262 91,606 69,489 53,796 51,039 30,329 15,628 6,916 3,638 1,192

21,951

34,805 04,148 91,788 60,985

60,077 36,274 34,530 29,505

8,403

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6,268 3,806 0,836 3,108

8,896 7,817

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855.

or August, 1857.

The Municipalities, by adopting this course, will have a road built in every way answering the purpose intended, for at least one-half the cost that Messra. Sykes, DeBergue & Co., or Mr. Moore, were to receive. The three Municipalities have at their command debentures equal in amount to £387,000, which amount it is correctly ascertained will complete the road to Arnorior and Perth. It will complete the road to Amprior and Perth. It is not, however, the intention of the parties interested to discontinue operations at Amprior; on the contrary, arrangements can so be effected without again calling upon the Municipalities, to carry on the work, as originally intended, to Pembroke.—Perth Seandard.

New York and Eric Railroad.

The following table shows the amount of earnings of this road during the nine months, from October 1st, till June 80th, 1855-'6, compared with its earnings during the same months in

000 00 00 000 181 Helder	1855-'6.	1854-'5.
October	\$603,139	\$541,429
November	535,616	491,492
December	589,969	454,431
January	402,818	427,336
February	862,719	840,751
March	455,256	507,090
April	613,669	506,597
May	617,664	475,127
June	490,765	396,837
No	1	A TOTAL ST

Total......\$4,671,615 \$4,141,090 Increase in nine months........\$530,525

Pittsburg and Connellsville Railroad Co. The Pittsburg Evening Chronicle of June 28th, contains the annexed proceedings of a meeting of the Board of Directors of the Pittsburg and Connellsville Railway Company, held June 26th:-

Whereas, The City authorities of Baltimore have made it the duty of the Finance Commissioners of said city to superIntend the disbursements of the proceeds of one million of dollars of bonds issued by that city in aid of the Pittsburg and Connellsville Railroad Company; and whereas, the said Commissioners of Finance, being unable to give their own attention to said disbursements, have suggested the plan of appointing as Executive officers of the company, gentlemen with whom their previous business and social connections have been intimate, in order that they may thus have been intimate, in order that they may thus have been intimate, in order that they may thus be relieved from personal supervision, and still comply with the requisitions of the ordinance; and whereas, for the purpose of co-operation with the Board of Directors of this company in carrying out the above views of the Commissioners of Finance of Baltimore, Oliver W. Barnes Esq., President, Chief Engineer and General Superintendent, has tendered his resignation of those offices, therefore,

Resolved, That this Board do now accept the above resignation of Oliver W. Barnes Esq., and whereas, this Board possesses full confidence in the ability and integrity of Oliver W. Barnes, and sincerely regret his retirement from the service of the company, prior to the completion of the great

the company, prior to the completion of the great and important work in which he and they are en-

Union Railroad Depot at Troy.

On a recent visit to Troy, we had the pleasure of viewing one of the finest railroad depots in the United States, and if we except one in Russia, we believe the largest in the world. The construction of this spacious and commodious edifice was commenced in 1853, and completed in 1854. The length of the building is 400 feet, and the width of the part devoted to the "entrance and exit" of the engines and cars is 150 feet—the exit" of the engines and cars is 150 feet-the width of the passenger rooms on the west front is 40 feet, and the width of the portion on the east side (the location of the water-tank and turntable) is 50 feet, showing a total width of 240 feet, the whole covering about 100,000 square feet, or the water two series of ground. The main buildmore than two acres of ground. The main buildmore than two acres of ground. The main building is covered by an arched truss roof, (Howe's plan,) in one single span, covering 60,000 square feet, resting on the main wall, which is 27 feet in height. The roof is supported by arched ribs or trusses of wood, 3 feet 4 inches in depth, with horizontal or tie-rods of iron, extending from one end of the truss to the other. The trusses are placed 18 feet 10 inches apart. The roof at the centre has a rise of 28 feet above the top of the walls, making the height at the centre 55 feet above the tracks. On the top of the roof is a above the tracks. On the top of the roof is a ventilator, 30 feet wide and 15 feet high, extend-ing the entire length of the building, with windows and slates placed alternately on each side. The ends of the main building are constructed upon six large free-stone columns, (from the quarries of Connecticut) with eliptical arches sprung from one stone to another, and subdivided by cast iron columns, forming two gothic arches of each ecliptical arch, making ten openings for tracks, eight of which are now laid through the

building; each opening at the ends of the depot is provided with substantial doors, and the whole lighted with thirty gas burners.

The passenger rooms on the west front or side are divided into four suites of rooms, each suite comprising a baggage room, gentlemen's sitting room, ladies' sitting room, and private parlor.—A ticket office, wash room and gentlemen's and la-dies' water closets, (with the most approved self-acting water fixtures,) are also attached to each of the four different suites of rooms. Between each suite of rooms we have passages for car-riages from the cars of the four different railroad companies at whose expense and for whose use the building was erected. The building has three tewers. On the front and over the centre of the passenger rooms, is situated the main tower, 115 feet in height, so constructed as to admit of a clock and bell. At each end of the passenger rooms are towers, four stories in height, which are occupied by the several railroad companies for general offices. These rooms are spacious and well adapted to the purpose for which they are designed.

designed.

In the centre of the passenger rooms, for a distance of ninety feet, the building is three stories in height—the second and third stories being used for refreshment rooms, with entrances by two flights of stairs in the main hall, and by two flights of stairs and balcony (187 feet in length) on the inside of the depot. The whole building is lighted by gas and heated by steam, there being some 14,000 feet of gas and steam pipe used for that purpose. and important work in which he and they are one gaged, be it

Resolved, That we consider it due to Mr. Barnes, to place upon the minutes of this Board of Directors our appreciation of his valuable services in the several capacities above stated, and our recognition of the industry, fidelity and ability with which he has discharged every duty of the various important trusts confided to him.

After the acceptance of Mr. Barnes' resignation, Benjamin H. Latrobe Esq., of Baltimore, was elected President of the company.

After the acceptance of the company.

The new organization of the Board of Directors to either. The building was erected at a cost of \$125,000 the ground cost \$105,000 being a total of \$230,000. The Union Railroad Company are also the proprietors of two miles of railroad thro' the city, which connects the four roads. That Joseph Pennock, of city of Pittaburgh, Pa.; Dan. B. Davidson, Connellsville, Fayette Co., Pa.; Andrew Stewart, Uniontown, Fayette Co., Pa.; Columbus O'Donnell, Chauncey Brooks, George W. Dobbin, of Baltimore, Md.

Union Railroad Depot at Troy. a style resembling or nearly approaching the Gothic. It was drawn by Mr. E. Bonnet, a distinguished French architect, under the direction of E. French, Esq., Chief, and G. S. Avery, Esq., Superintending Engineer. In this connection it is but just and proper to state that to the last named but just and proper to state that to the last named gentleman we are indebted for the "facts and figures in the preceding account. We should also acknowledge our obligations to Mr. A. McCoy, the Superintendent of the Union Railroad Company, to whose politeness we are indebted for a thorough personal inspection of this model building. It is a remarkable fact that, notwithstanding the road crosses a great number of streets, (the entire width crosses a great number of streets, (the entire width of that part of the city,) not an accident has happened to a single individual since the rails were laid, owing in a great measure, to the watchful energy of the Superintendent, (Mr. McCoy,) who is ever on the alert to detect any delinquencies on the part of the police stationed at the crossings. Indeed, the entire police arrangements at the depot are admirable. Runners, cab drivers, and hackmen, are not allowed to annoy passengers, or distract them by their officiousness, as is too frequently the case at railroad stations in our large cities. Several uniformed policemen are employquently the case at railroad stations in our large cities. Several uniformed policemen are employ-ed by the company whose duty it is to prevent such annoyance, and to impart information to the ignorant but inquiring traveller. We passed most of two days at the station, and it affords us great pleasure to remark that the policemen were courteous and patient in answering the hundred and one questions of the passengers constantly arriv-ing in the several trains.—Hunt's Merchants Magu

The Central Ohio Railroad,

The Zanesville Daily Courier thus notices the business and pecuniary prospects of this road :-

The present of this road gives earnest hopes for the future. Our citizens are beginning to have faith in the ultimate results of the plan adopted to relieve it from embarrassment, and believing this, are more inclined to give it a fair and impartial trial. This is as it should be; confidence will be restored in other quarters, and the enterprise will eventually prove profitable, and meet the expectations of its early friends.

We have for the month of June, the following

British to the second s	All Million B	- Louis
On Passengers	\$28,498	40
On Express		
On Mails	2,252	25
On Freight	26,009	75
	17.28 W 1814	12 cm

This is against \$42,000 in the month of May, and \$45,000 in the month of April. Prior to that time the earnings scarcely ever exceeded \$35,000. It must be remembered, too, that this is not the busiest season of the year for the transportation either of freight or passengers, and this makes the present earnings still more gratifying to the friends of the road.

to be a finding to an annual and control record Railway Share List, of the second of things and sold second of the second of the

Control of the contro

set and more real set of the company	Ingth of Road.	Japital paid in.	Debt.1	Total cost of road & equip't.	Gross Earnings for last official year,	Net Earnings, for do.	Dividend for do.	Price of Shares,	David Forman of Silver of		will be a top Place of the period of the per	Total cost of road & equip't.	Protes Earnings for last official year,	Net Earnings for do.	Dividend for do.
no root) is or mick, in	10	nothiges)	th the e	w) zati-				05	A SHOW THE PARTY OF THE PARTY O	rooff a	Co., or M	ergue 6c	es DeB	dre Sin	sall te
Atlantie & St. Lawrence	149	1,538,100 588,042	1.622,905	2,210,947	470,647 209,475	110,247		14	Brunswick and Florida, Ga. 30 South Western	1,097,496	300,000 465,500	1,624,920	In progr. 258,306	141,168	8
Forti Saco & Portland	56	1,114,725	1,661,236 119,237	1,486,327	270,214	112,491	6	90	Tennessee and Mississ	170,931		679,906 175,340	In progr. In progr.		
Boston, Conc. & M'ntreal	93 53	1,808,093	1,059,512 899,313		288,294 380,221	120,834 . 143,565	2		Memphis and Charlest'n 21	2,179,440 2,568,555	2,127 002 1,802,921	4,028,796 4,536,412	311,631 199,932	169,572 109,286	1101
Oheshire	85	1,500,000 2,768,400	8,242		835,949	138,299	216	77 42×	Mobile and Ohio 18: Miss. Central 18: N.O., Opelouses & G.W. 5:		none		In progr.		1.2
Northern, N. H	61	1,048,145	787.608	1,780,062	162,687 394,971	55,178 n	one	4	Vicksh., Shrevep.4: Tex. East Tennessee and Ga	111,750	none	107,895	In progr.		1700
Rutiand & Burlington Vermont Central	117	2,233,376 5,000,000	3,550,236	8,463,366	820,119 489,754		one	685	East Tennessee and Va 1	1,000,000	1,500,000 938,593	2,500,000 1,033,781	In progr.		treedy
Boston and Lowell Boston and Maine	88	1,830,000 4,076,974	825,685 150,000	4,179,530	854,426	339,060	6	76	Covington & Lexington 9	1,302,804		3,843,694 3,738,753	264,978	112,177 138,694	18
Boston and Providence	55	2,240,300 3,160,000	1,518,671 359,132	3,463,×18 8,677,154	59,917 558,671	8,740 n 219,689 n	one	63%	Lexington and Frankfort 28	430,055	158,099 52,734	637,071 747,178	93,263 In progr.	43,685	6
loston and Worcester	68	4,500,000 681,690	655,428 280,598		1,008,004 119,221	404,461 65,527	8 %	88% 49%	Atjantic & Gt. Western 25	698,236	669,061 77,294	1.589.566	244,014	96,902	6
Cape Cod.	52	1,591,110 2,583,400	278,241	1,802,244 4,621,016	286,563 647,281		5%	47	Bellefontaine and Ind. 116 Clev., Col., and Cincin. 14	1,881,685 4,547,020	2,025,925 122,857	613,281 2,862,652 4,613,722	298,298	140,828 732,056	
Pastern, Mass Pitchburg North-Eastern	67	3,540,000	153,700	3,765,998	681,163 In progr.	225,071		69	Uluveland and Toledo 200	D 2.675.425	2,689,301	5,124,629	786,272	396,986	
Bedford and Taunton	21	800,242 500,000	225,585 none	683,958	198,491	56,533	6%	83	Clev. and Mahoning	2,780,744		628,533 5,537,466		309,518	00
Old Coly and Fall River	77	3,015,100 2,232,541	292,650 1,033,670	3,362,949 3,209,727	653,499 266,726	87,313 p	one	7%			1,321,213 1,131,265	2,987,757	508,271 In progr.	278,012	12
Western, Mass	155	5,150,000 1,141,000	5,966,420 205,565	10,495,905 1,851,271	1,869,673 204,780	75,760	2	40	Columbus and Xonia	1 484 660	149,000 422,658	1,481,733		187,518	10 82
Province and Worcester	43	1,510,020 2,350,000	338,461 939,000	1,806,696 8,313,932	311,430 780,012	188,057 _ 852,799 1	0 12	70 21 %	Dayton Xen, & Belpre 68 Dayton and Michigan 140 Dayton and Western 38	1,076,602 310,000	393,011 500,000	1,185,826 738,769			than 35
fartford and N. Haven Iart'd, Prov. and Fishkill	122	2,008,110		4,060,869 2,431,773	258,685 839,196	119,611 o 71,427 n	0000	ava	Baton and Mamilton	454.690	904,489	1,155,135	171,929	65,000	20
Iousatoric	57	1,031,800	524,244	1,580,723 5,376,808	220,459 884,806	93,768 . 838,877 n		25	Mad River and L. Erie 200	2,963,921 2,461,650	1,171,785 2,572,982	3,648,172 4,446,661	681,562	336,708	15
. York and N. Haven I. Haven and N. London	50	3,000,000 738,258	2 376,808 735,165	1,450,318	88,007	30,318 n	one	****	Ohio and Penn.	2.451.700	3,485,076 3,219,000	4,283,443 5,670,700	1,111,626	opened. 662,117	
London, W. & Palmer	66	2,122,300	1,073,673 873,489	1,694,368 2,597,153	124,044 304,236	88,458	2 %	36%	Pittsb'g, Mayev'e & Cin 50 Sand'y, Mansf. & New's 127	371,350 1,350,000	31,000 2,206,357	390,933	In progr. 328,958	164,479	none
lack River and Utica	32	439,005 643,330	1,625,098 317,859	1,840,695 974,328	117,716 In progr.	9,904			Scioto & Hocking Valley 112	403 975	509,050 950,000	888,868	In progr. In progr.		
tuffalo, Corn. and N. Y	100	1,487,874	1,501,183 2,597,849	2,819,096 3,401,868	172,476 288,392	66,333 n 31,896 n	one		Springf, Mt. Vernon & P 118 Tol., Wabash & St. Louis 242	2,500,000	4,530,000		n progr.		
nuffalo and N. Y. City	69	798,489 1,300,000	1,040,000	2,494,364 1,275,796	679,750	365,763(1	0	1111	Cin., Log , and Chicago 255 Evansy's & Orawfordsv 109	4,196,679 706,945	1,006,125	1,844,541	127,400	64,552	
anandaigua and Elmira anandaigua & Niagara P's	98	434,111 1,315,000	922,393 2,279,854	3,495,832	174,089	69,506			Ind. and Cincinnati 88 Indiana Central 66	611,400	1,442,859	2,178,461	356,012 350,176	193,142 184,375	
Service & Sugarana hanna	85	8,758,466	9,250,362		135,433 1,812,087	48,649 ne	one	82	Jeffersonville 66		1,099,400	1,831,225	226,058 206,544	98,010 94,318	none
Indeen Riverong Island	95	1,875,148	14 460 740	2,555,986 29,523,913	801,793	116,462 no 3,162,126	8. 1.	93	Madison and Indianapolis 87 New Albany and Salem 288	1 647,700	1,836,816 5,281,948	1,205,000 6,643,189	286,146 645,827	112,880 371,402	none
IOM A OLK MINT INCID SPRINGS	don't	0,023,958 5,717,100	25,126,669	33,439,431 8,758,203	5,488,993	2,627,118 p 234,126 p	one	62×	Peru and Indianapolis 73 Terre Haute and Ind 73	****	858.314 604,355	1,502,166	150,000 287,512	90,000	none 16
lew York and Harlem	Tre	1,638,022		5,470,714 728,688	520,153 126,540	185,754 n 59,982	one	2	Chicago and Rock Isi'd 182	3,141,500	2,387,155	5,214,162	n progr.	189,702	98
ottsdam and Watertown	35 29	467,200	294,189	749,683 896,423	In progr.	n	one		Chicago and St. Louis 220 Chicago, Burl, and Quincy 58		1,684,786	2,584,622	1,077,312 722,580	379,821	20
tensselner & Saratoga	48	610,000	140,000 395,600	******	241,149 71,909	21,089 p	one		Chic., St. Paul & Pd du Lac. 178	2,800,000	1,825.000	3 625,000		2:9,588	
roy and Boston	80	768,369 437,830	1,578,804	1,109,822	159,484 156,363	22,503 p		7110	Galena and Chicago	2.271.050	3,318,039 19,416,392	7.742,614	2,315,786 1,532.118	1,192,042 527,952	
Vatertown and Rome	97	1,370,378	700,979 1,619,000	2,068,063 2,619,000	161,855	172,474 75,534 p	Man and		Ohio de Miss. (Wat Day)	569,889	\$18,454 3,292,408	1,388,342 4.870,586	in progr.		
amden and Amboy	94	8,000,000	11,407,200 1,522,181	1,729,642	2,017,127 122,417	961,941 1: 50,080 pc	2 11	20	Terre Haute and Alton 173 Detroit and Milwaukee 185	2.281.420	1.256,000 1,128,964	3,587,424 1,966,969	in progr.	oboner.	-14
amden and Atlantic	30	3,482,850 2,000,000	690,000 2,266,176	4,310,011 8,683,149	861,514 893,728	500,747 10	1	24%	Mich. Central	6,032,444	5,996,013	10,668,155	2,215,283	879,656	
lorris and Essex	53	1,157,805	375,000	1,636,550	229,341	96,267	,		Mich. South'n & N. Ind 475 Green Bay, Mil. & Ch 155	764,076	442,726	1,193,765	In progr.	875,000	
lleghany Valley.	63		342,564		219,253	152 450	14		Milwaukee & Watert'n 72	854.861	2,467,889 132,000	8,578,757 514,238	n progr.	417,443	101
atsw. Wit & Ericonsumberland Valley	56	1,099,500 3,051,622	3,884,702	6,022,667	146,381 528,911	259,288			Milwaukee and Horicon 15 Milwaukee & La Crosse 51	1.351.882	532,131	354,109 1,883,963	la progr. In progr.		124
umberiand Valley el. Lack. & Western	20	600,000	1.200,000	750,000 1,348,812	89,535	53,335			Racine and Miss	921,906 292,351	532,131 380,715 580,000	1,883,963 1,289,321 823,310 1,824,346 7,116,949	n progr.		21 (0)
attle Schuykill	28	2,606,100 2,530,855	731,492	3,407,651 3,287,678	353,301	255,980 - 9			North Missouri 19 Pacific 125		A 987 898	1,824,346	in progr.	borne	Line In
orthero Pena	256 1	2,355,525	7,519,096	18,458,489 8 19,004,180 4	3,583,333	1,829,277	1 1 5	98	St. Louis and Iron Mt	445,170		186,116	n progr.	opened.	7277 .28
hil. Wil. and Baltimore	98	5,312,805	8,082,003 376,800	7,979,466	942,449	871,124 118,443		4% 9%	oring no tendings to chart	DECL REG	17.6 EL . VI	SHYTHA		H 70	
iff. Germ. & Norrist'a ttsb. and Connellsville noury and Eric liliamsport and Elmira	147	1,339,661	111,493	1,369,630 1 2,075,650 1	n progr.	110/250		1000	and hell. At ear	GOVERN	MENT SE	CURITIE	S.	OHIO J	(tebpser)
indury and Erie	78	1,500 000	262,886 2,192,864	8,464,454 23,031,507	503,500	253,500			Per Loan, 6 per ct	ct. Per c	t.			Perc	L. Perc
ltimore and Ohio	382 1 41	1,650,000	9,670,491 25,000	1,000,000	000,229	124,851		4X	Do. 6 do1862110 Do. 6 do1867110	×	Do.	6 do. co	ap's18	68116 A	ylazan
illiamsport and Einara	84	1,860,000	2,680,000 4,316,073	4,729,656	558,427 In progr.				Do. 6 do186711	al mount	. Do.	0 do, Te	1. ind18	86106	12.45.77
orth-Wedern Varianings and Alexandria	97	1,457,500	638,622 1,489,012	4,729,656 2,754,047 2,739,362	211,505	111,363 69,710 ac			Maine, 6 per ct187010		SECURIT	na, Can.Lo			
ttab's & Steubenville	32	1,221,277	280,000	4 184 616	In progr.	172,891 pc			Massachusetts, 5 per ct. 1859 9	7 99	Do	do. pr	er, b do		-
irginia Central	49	2,500,000	1,051,248	2,754,047 2,789,362 914,695 4,184,516 5,469,780 3,200,000	255,920	126,829	S. 15.		Do. 6 stg10 New York, 6 per ct.1860-6210		Loui	ucky,6 per siana, 6 do land, 6 do	cp. lon	72.101 8 90	102
ichmond and Danville	22	768,100	266,048	1,148,054	151.947	73,234 no	me .		Do. 6 do. 1864-6510 Do. 6 do. 1866-6710	8 113	Mary	land, 5 do.	ср.1870	-90.1043	105
etersburg and Roanoke	63	109,000	780,506 158,502	1,708,169	282,172 268,874	120,212 1 123,661 4	8 1175		Do. 6 do. 18/2-7811 Do. 5% do. 1860-6110	104	Misse N.Ca	roung, 6 do.	CD 18	7254 MD:	THOUSAN
etersburg and Roanoke	28	4,000,000	1.378.989	2,830,877	Recently	151,064 no	13	718	Do. 5 do. 1868 Do. 5 do. 1858-6010	1 103	. Ohio,	do	18	56 99 M	100
sleigh and Guston	97		120 678	1.136.451	178 009	103,892 2 138,875 6	X.		Do. 5 do1866100 Do. 4½ do.1858 59-64, 90	106	Do.	6 do.		10100	109
moonwille de Columbia	651	1,200,404	968,800	1,999,080	214,866	908 774			Alabama, 6 do. coup 80 California, 7 do.coup1870 80	95 85	Do.	5 do.		55	110 82
outh Carolina	87	719 849	2,731,545 225,000	1,719,045 1,999,080 7,133,848 1,092,222	251,076	888,402 9 161,198 7 860,860 7	×		Georgia, 6 do. do. 1872	100	Penn Do.	i, b do.	en . 181	7 874	
congis Contrai	91	4,156,000 8,833,140	260,991 none	4,416,99; 8,838,140 1,647,046 1,929,416	,068 202 ,260,570	A46' 144 A	319 E: 4	202	Ellinois Int.Imp 6 per et.1647_111 Do	116	Tenne	a do	ср. ср. 18	Acres 74.36	103 17
	001		30F #30	1 647 046	950 900	96,104 10	170		Indiana do		Virgi	2	PERSONAL PROPERTY AND	ATTACK TO SERVICE AND ADDRESS OF THE PARTY O	E33247 531

-UOI 22 WAVES CONCURRED IN	o Williams	tlroad-	: July the to	t cent: name	of 265	pener,	220lo	58° 5	For the week ending July 16th, 1866. Per et.
of a companies the companies of	14		d Bonds noil		53	change	Offered	I	Held Mineral & marget Miner communication During States (Miner)
(The following quotations are ex- interest.)	u Mad	verted from	-01 sagara	Contieldatal c	Wh	A	0	O	ovington & Lexington, 2nd Mort. 7 per ct
bama and Tennessee River	\$888,000	ist mortgage, c					1 6	2% C	in., Ham, and Dayton, and Mort, 7 per ot
hip and State Line	500,000		convertible 7	April, October- Jan'y, July Jan'y, July	66 18	866 866		0	ovington & Lexington, 10 per ct Income
Do. 101320 do	200,000 1	Real estate, con Income, guar. (Feb'y, August	1 1st	858 859		16	olumbus and Xenia Dividend
ntral Ohio	1.250,000]	lat mort conv. 2d do. incon	east, sec ?	Divers March, Sept		861-64 865			in. Hamilton and Dayton, Divid. Scrip, due 1867, fist 105
Do. cinnati, Hamilton, and Dayton	500,000	lst mortgage in	convertible	Mor Novemb		867		86	Bellefontaine and Indiana, 30.—Cin., Ham. and Dayton, 36.
Do. do. do		lst mortgage, c	onv. tili 1862	Jan'y, July		868 862	62%	75 85 1 95	Bellefontaine and Indiana, 30.—Cin., Ham. and Dayton, 48.—Col. and Xenia, 82.—Cincinn. and Chic., 4.—Covington & exington, 18.—Dayton & Western, 17.—Eaton and Ham-
cinnati, Wilmington, and Zanesville veland, Painesville, and Ashtabula.	567,000	Do. i	nconvertible	Feb'y, August.	11	861		09 6	ton, 20.—Indiana Central, 50.—Indianapohs and Cinchnsti, 0.—Little Miami, 89.—Mad River & Lake Brie, 15.—Mari-
veland and Pittsburgh Do, do.	800,000 1,200,000	Do.	on Branches	Jan'y, July May, Novemb. Feb'y, August. Feb'y, August. March, Sept	66. 1	873 863		67%	and Cincinnati, 16.—Peru and Mississippi, 5%.—Hillsboro and Cincinnati, 16.—Peru and Indianapolis, 16%.—Cincinnati,
veland and Toledo	525,000 800,000	Do.	nconvertible	Peb'y, August. April, October. April, October.	16 1 46 1	862-73 862-73	101	80	Wilm, and Zaneaville, 12.
Do. do.	1,200,000	Do.				862	****	75	For the week ending July 16th, 1860,
Do. do	1,000,000	2d mortgage, c	do.	7 March, Sept	4	888		90%	86,000 Payette Co . Ky., 6 per cent
t Wayne and Chicago	1,250,000	Do. C	nconvertible	7 Jan'y, July 7 Feb'y, August.		863	94.%	95%	2,000 Cincinnati 6 per cent
Do. do eat Western (Illinois) een Bay, Milwaukee, and Chicago	2,000,000	2d mortgage, 1st mortgage,	do 1	7 May, Novemb. 0 April, October.	4	875	85	98	1.000 Cm, and Chic. S per ct. Real Katate
een Bay, Milwaukee, and Chicago	400,000 300,000	Do. C	convertible	8 10 April, 10 Oc. 7 April, October.	64.	1878		75	4,000 Covingt. & Lex., 7 per ct. 2nd Mortgage
fersonvillediana Centraldianapolis and Bellefontaine	600,000	Do	convertible	8 10 April, 10 Oc. 7 April, October. 7 May, Novemb. 7 Jan'y, July 7 March, Sept	66	1866-61	-	80	2,000 Indiana Central, 10 per ct. Liceums
dianap. & Cin'ti (for Lawb. & U. M.)	450,000 500,000		do. conv. till 1857	7 March, Sept	146	1866	82%	85	1.28000 Delotto dar erstore end ales de semeses en la 7.2000 de semeses en la 7.2000 de la 7.200
Crosse and Milwaukee	3,400,000	1st mortgage,				1866	1-357	75 81	20 Shares Indiana Central
tle Miamichigan Central	1,500,000	Do. No mortgage,	nconvert	7 Feb'y, August. 6 2 May, 2 Nov. 8 April, October 8 March, Sept,	Bost.	1860	100%	01%	165 "Cin. & Chicago
Do.	600,000	Do.	do. c. conv, till 1857	s March, Sept, s Jan'y, July s April, October. S June, Decemb. O April, October. S May, Novemb. Jan'y, July 7 Feb'y, August. 7 Jan'y, July 7 April, October. 6 Jan'y, July 8 Feb'y, August. 7 March, Novemb. 7 Jan'y, July 8 Feb'y, August. 7 March, Sept 9 March, Sept 9 March, Sept 9 Jan'y, July 9 March, Sept 9 Jan's, Sept 9 Jan's, Sept 9 Jan's, Sept 9 Jan's, July 9 March, Sept 9 Jan's, Sept 9 Jan's, July 9 Jan's, Sept 9 Jan's, Sept 9 Jan's, Sept 9 Jan's, Sept 9 Jan's, July 9 Jan's, Sept 9 Jan's, July 9 Jan's, Sept 9 Jan's	N.Y.	1862	101%	9656 1	40 "Coving on and Lexington
Do do	650,000	Do. 2d	do. 1858 do. 1860	8 April, October. 8 June, Decemb.	100	1868 1877	88%	96% 89%	92 " Hills orough and C neissnati
Do. do.	500,000	Do. 1st s	ection	8 May, Novemb.	150	1858-62 1864-75	****	2200	44 " Cin. Wil & Zapesv
Do. do.	1,200,000	1st mortgage,	do.	8 Jan'y, July 7 Febry, Angust.	66	1873 1867	****	95	lave been la lowed by one of resolted. The
bio and Indianahio and Pennsylvania	1,750,000	Docto'T	do	7 Jan'y, July	146	1865-66	95 79 %	80	Extract from De Coppet & Co.'s Money
Do. do. ennsylvania (Central)	5.000,000		conv. till 1860	6 Jan'y, July	Phila.	1880 1875	97%	98 85	Circular for the European Steamer of the
scine and Mississippi noto and Hocking Valley subenville and Indians	800,000	Do.	conv., sink'g f'd	7 May, Novemb	2100	1861 1865		80	TRANSLATED.
teubenville and Indianaerre Haute and Indianapolis	1,500,000	Do.		7 March, Sept.	4	1866	98	100	New York, Tuesday, July 22, 1856.
Do. do,	1,000,000	Do.	do	7 Feb'y, August 8 Feb'y, August	Just	1862772 1870	77	75	To several days of activity in the Stock Market during the beginning of the week has succeeded
			Tunnel.	ande Die 1st o	S HELDS	idezal a	1	188	a duliness not unusual at this season of the year.
NAMES OF THE PROPERTY OF	t d		walter wer	Interest pay-	2.9	s epug	4	3	Prices have experienced oscillations upon most of the more active stocks, which have resulted gen-
COMPANIES.	Loan	Description	on of Bonds.	able.	Where	Doc	Offered.	Askedi	erally in a decline. The aggregate transactions
(The following quotations include the accrued interest.)	4	-industrial		PA STRUCK II	TURS	916,993	0	-	of the week were considerable, embracing as well
altimore and Ohio	2,500,000	Mortgage		6 April, Octobe	Balt.	1885	85%	85 X	some of the State Stocks, as the Bonds and Shares of the best accredited railways. Besides this, the
Do, dohicago and Rock Island.	1 109 500	n Do	conv. till 1868 -	6 Jan'y, July 7 10 Jan. 10 July	y N.Y.	1870	86% 95 104	95%	Bonds of several of the Western roads which, for
rie Railroad	4,000,000	0 1st mortgage.	convertible	7 May. Novemb 7 March, Sept.	- C 64	1867 1859		106%	a long time, had remained entirely dormant, seem disposed to emerge from their protracted inaction.
Do.	0,000,000	3d mortgage	k Wund. \$420,000	7 March, Sept 7 Feb'y, August	- "	1883	97	97 % 97 %	Money, although in rather better demand from
Do	4,351,000	O Convertible, 1	Inscription	7 Feb'y, August 7 Jan'y, July	14	1871	90%	90%	the importing merchants, remains very easy to procure, the Banks appearing disposed to lend
Do. Iudson River.	4,000,00	0 lst mortgage	Inscription	7 Pebly, August 7 16 June 16 De	7 66 L	1869-70	102	103	
			40.				98	001/	lifetly the balances from the invertor, which are
Do. Do.	2,000,000	0 34 40	convertible	7 May, Novemb		1870	89 69 %	001/	again on the increase with them. vir)
Do. Do. Binois Central	2,000,000 3,000,000 17,000,000	0 3d do. 0 Mortgage, inc	convertible	7 May, Novemb 7 April, October 7 March, Sept.	p. 44	1870 1875 1860	69.4 92.4 100	001/	again on the increase with them. State Stocks.—There were large transactions in
Do. Do. Inois Central Do. (Free Land)	2,000,000 3,000,000 17,000,000 3,000,000	0 3d do. 0 Mortgage, inc 0 M'ge 345,000 0 1st mortgage	convertible acrs-priv.7 shar's , inconvertible	7 May, Novemb	b. «	1870 1875 1860 1860 1861-72	69.4 92.% 100 95 84	001/	again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of 56 to 34; Indiana 6s have been freely done without alteration of price
Do. Do. Do. Shois Central Cyree Land Southern Sew York and Hariem. Sew York and New Haven	2,000,00 3,000,00 17,000,00 3,000,00 1,000,00 1,800,00	0 3d do. 0 Mortgage, inc 0 M'ge 345,000 0 1st mortgage 0 Do. 0 No mortgage	convertibleacrs-priv.7 shar's, inconvertible do do do	7 March, Sept. 7 May, Novemb 7 May, Novemb 7 June, Decemb 6 Jan'y, July	b	1870 1875 1860 1860 1861-72 1855'60' 1873	92 % 100 95 84 6 78 92	89% 70 98 98 88 80 94	streely the balances from the interior, which are again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of 56 to 36; Indiana 6s have been freely done without alteration of price City and County Bonds.—Prices are well austrained, but we have merely to mention some re-
Do. Do. Bhois Central Do. (Free Land) Southern Few York and Harten New York and New Haven New Haven and Hartford Northern Indiana	2,000,00 3,000,00 17,000,00 1,000,00 1,800,00 1,000,00 1,000,00 1,000,00	0 3d do. 0 Mortgage, inc 0 Myge 345,000 i 0 Ist mortgage 0 Do. 0 No mortgage 0 Lst mortgage 0 Do. 0 Do.	convertible	7 March, Sept. 7 May, Noveml 7 May, Noveml 7 June, Deceml 6 Jan'y, July 7 Feb'y, August 7 Feb'y, August	b. «	1870 1875 1860 1860 1861-72 1855'60' 1873 1861 1868	69% 92% 100 96 84 6 78 92 93	98 98 98 88 80 94 96 91	again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of 56 to 26; Indians 5s have been freely done without alteration of price City and County Bonds.—Prices are well amb tained, but we have merely to mention some retail transactions in St. Louis 6s, Milwankee 7s
Do. Do. Bhois Central Do. Gree Land) Lichisan Southern Lew York and Harlem Lew York and New Haven Lew Haven and Hartford Northern Indians Do. Goshen Branch Lew York Central	2,000,000 3,000,000 17,000,000 1,000,000 1,800,000 750,000 1,000,000 1,500,000 8,287,000	0 3d do. 0 Mortgage, inc 0 Mortgage, inc 0 More 345,000 0 lat mortgage 0 Do. 0 No mortgage 0 Do. 0 No mortgage 0 Do. 0 No mortgage	convertible	7 March, Sept 7 May, Noveml 7 May, Noveml 7 June, Deceml 6 Jan'y, July 7 Feb'y, August 6 May, Noveml 7 15, June, 15. De	b. « p. « b. « b. « b. « b. « c. « c. « c. » c. » c. « c. » c. « c. » c. » c. » c. « c. »	1870 1875 1860 1860 1861-72 1855'60' 1873 1861 1868 1883 1864	69 % 92 % 100 95 84 6 78 92 93 89 % 102 %	98 88 80 94 96 91 89%	again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of \$4 to \$4; Indians 5s have been freely done without alteration of price City and County Bonds.—Prices are well and tained, but we have merely to mention some retail transactions in St. Louis 6s, Milwankee 7s and Albany 6s. To-day an auction sale of \$184;
Do. Do. Do. Bhois Central Do. Tree Land) Biblisan Southern Iew York and Harlem Iew York and New Haven Iew Haven and Hartford Northern Indians Do. Goshen Branch Do. Do. Do. Conanama, 1st issue	2,000,000 17,000,000 1,000,000 1,800,000 1,800,000 1,500,000 1,000,000 1,500,000 8,287,000 900,000	00 3d do. Mortgage, ind Mortgage, ind O Morga 345,000 i O Lat mortgage Do. O No mortgage Do. O Do. O No mortgage O No mortgage O No mortgage O No mortgage	convertible	7 March, Sept 7 May, Noveml 7 May, Noveml 7 June, Deceml 6 Jan'y, July 7 Feb'y, August 6 May, Noveml 7 15.June, 15.De 7 Jan'y, July 7 Yan'y, July	b. « b. « b. « b. « c. « c	1870 1875 1860 1860 1861-72 1855'60' 1873 1861 1868 1883 1864 1866 1866	69 % 92 % 100 95 84 6 78 92 93 89 89 %	98 88 88 80 94 96 91 89 %	again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of 56 to 36; Indiana 6s have been freely done without alteration of price City and County Bonds.—Prices are well ambained, but we have merely to mention some retail transactions in St. Louis 6s, Milwankee 7s and Albany 6s. To-day an auction sale of \$184, 000 St. Louis 6s, from 81 to 7556 and interest
Do. Do. Do. Tree Land) Libiasan Southern Lew York and Hartem Lew York and New Haven Lew Haven and Hartford Lorthern Indiana Do. Goshen Branch Lew York Gentral Do. Canama, 1st issue Do. 2d do.	2,000,000 3,000,000 17,000,000 1,000,000 1,000,000 1,800,000 1,000,000 1,000,000 1,500,000 8,287,000 900,000 1,478,000 1,478,000	00 3d do. Mortgage, ind Mortgage, ind Mortgage Do. No mortgage Do. Do. No mortgage Do. ON mortgage	convertible acra-priv.? shar's , inconvertible do.	7 March, Sept 7 May, Noveml 7 June, Decemi 6 Jan'y, July 7 Feb'y, August 6 May, Noveml 7 15.June, 15.De 7 Jan'y, July 7 Jan'y, July 6 Jan'y, July 6 Jan'y, July	b. 44 b. 44	1870 1875 1860 1860 1861-72 1873 1861 1868 1883 1864 1866 1866	69 % 92 % 100 95 84 6 78 92 93 89 % 102 %	98 88 88 80 94 96 91 89% 102%	again on the increase with them. State Stocks.—There were large transactions it Missouri 6s, at a decline of \$6 to \$4; Indians 6s have been freely done without alteration of price City and County Bonds.—Prices are well and tained, but we have merely to mention some retail transactions in St. Louis 6s, Milwankee 7s and Albany 6s. To-day an auction sale of \$184, 000 St. Louis 6s, from \$1 to 75½ and interest averaging 76 4.5th, and of \$10,000 St. Louis County 6s, at 75 and interest, rather reduce but
Do.	2,000,000 3,000,000 17,000,000 1,000,000 1,000,000 1,800,000 1,000,000 1,000,000 1,500,000 8,287,000 900,000 1,478,000 1,478,000	00 3d do. 0 Mortgage, ind 0 Myg 345,000: 0 Ist mortgage 0 Do. 0 No mortgage 100 No mortgage 0 No mortgage	convertible acra-priv. 7 shar's , inconvertible do.	7 March, Sept 7 May, Noveml 7 June, Decemi 6 Jan'y, July 7 Feb'y, August 6 May, Noveml 7 15.June, 15.De 7 Jan'y, July 7 Jan'y, July 6 Jan'y, July 6 Jan'y, July	b. 66 66 66 66 66 66 66 66 66 66 66 66 66	1870 1875 1860 1860 1861-72 1855'60' 1873 1861 1868 1883 1864 1866 1866	92 % 100 95 84 78 92 98 89 % 101 101 92	98 88 88 80 94 96 91 89% 102%	again on the increase with them. State Stocks.—There were large transactions in Missouri 6s, at a decline of \$6 to \$4; Indians for have been freely done without alteration of prices. City and County Bonds.—Prices are well austained, but we have merely to mention some retail transactions in St. Louis 6s, Milwankee 7s and Albany 6s. To-day an auction sale of \$184, 000 St. Louis 6s, from \$1 to 75½ and interest averaging 76 4.5th, and of \$10,000 St. Louis County 6s, at 75 and interest, rather reduce our quotations.
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HOAN RAILROAD JOURNAL

during the earlier part of the week turned mostly on Eric, Reading, New York Central, Cleveland and Toledo, and Michigan Southern. The last named are quoted ex dividend. The decline on these has been general. Illinois Central, with very little doing, declined 2 per cent. Exchanges on Europe rather fist. Paris 5.16 4 a5.17%; London 109 4 a110.

DE COPPET & CO.

Extract from the Circular of Robt. Benson & Co.

The circular of Messrs. Robt. Benson & Co., received by the Persia, states that-

"In American Securities there has been much greater activity, and to-day, well known Railway Bonds and State Stocks are inquired for. Illinois Central R. R. Construction Bonds 7 per cents. have been sold at 8214; and Freelands at 88a8814
a89. Pennsylvania 1st Mortgage Bonds at 91; 2d
Mortgage Sterling Bonds 9414a96. New York
Central 7 per cents. at 9514a96; Michigan Southern and Northern Indiana Sinking Fund Bonds at 80, and Erie Bonds of 1862 at 82. The transactions in State Stocks are chiefly purchases—United States 6 per cents. at 103, ex-coupon; South Carolina Bonds (Barings' 1858) at 99%; Pennsylvania 5 per cent. Bonds are quoted 80a82, and Maryland Sterling 98a99 ex-Coupon."

Marie & Kanz' Money Circular for the European Steamer of the 23d inst.

.. [TRANSLATED EXTRACT.]

NEW YORK, Monday, July 22d, 1856. Several weeks of great activity and buoyancy have been followed by one of reaction. The heavy exportation of specie to Europe, and the continued system of expansions by our Banks, have caused some fears that the present ease in money matters might be disturbed before long.— The business in speculative stocks has not been very large throughout the week, and prices show eline without exceptions; Investment stocks have been tolerably active, but prices have been more or less influenced by the general tone of the The orders for our stocks from Europe by the last mail, have been less important than by the last two or three steamers. The principal or-ders having been for Michigan Central bonds, Illineis Central bonds, Cleveland and Pittsburg 2nd mortgage, and Ohio and Pennsylvania Income bonds; there were also some purchases of other Western railroad bonds made for foreign account, but only in limited amounts. State Stocks .- The largest transactions have taken place in Virginias and Missouris, the former declining ½, the latter 1 per cent.; Indiana 5s sold also at a decline of ½; the new California loan of 1875 was again down at 70a69%. City and County Bonds.—Except the sale at auction of St. Louis City and County bonds, which was mentioned in a separate paragraph, nothing of importance has been done.-Some Cincinnati 6s, Milwankee 7s, and Chicago 6s sold at former prices. Railroad bonds have not been so active of late. Illinois Central bonds declined 1; Eric 1875 bonds 1; Eric 1871 bonds 16; Hudson River 3d mortgage 1/4; Michigan Central bonds, 1869, at an advance of 1/2; the Cleveland and Pittsburg mortgage bonds and the branches at an advance of 21/2 per cent., have been bought for Europe to some extent. Ohio and Pennsylvania Income bonds went up 8 per ct. Several lots of the La Cresse and Milwaukee Sinking Fund mortgage bonds having been taken for foreign account, we shall hereafter quote them regularly. Railroad Shares .- The transactions have been moderate, compared to the last fortnave been moderate, compared to the last fortnight, and prices are all lower. Erie sold as low
as 6136, but recovered to 62%, which is still 1½
per cent. less than our last quotation. New York
Central declined ½; Panama 1; Michigan South'n
¾, Michigan Central 1½; Illinois Central 2¾;
Cleveland and Toledo 1½; Cleveland and Pittsburg 1½; Galena and Chicago ¾; Milwaukee and
Mississippi 1; Wisconsin and Lake Shore 1½ per
cent. Money.—The demand for money has been ney.—The demand for money has b a little more active, without creating any change

in rates. We quote loans on call 6a7 per cent. first class paper, 748 per cent.; names less known 8a10. Exchanges.—Sterling in a fraction lower, 1003/4110. Paris and Continental exchanges remain without alteration.

MARIE & KANZ.

The Rising Fever of Speculation in Eng-

The fever of speculation now gradually commencing will be watched with anxiety by all who regard the permanent welfare of the country,-Every one can see that, with the influx of bullion the demand for new investments will increase, that this demand will be met on all sides, and that the majority of the schemes introduced will call not merely for the surplus funds seeking employment at the moment, but will pledge the community to a continued outlay long after the tide may have turned. They can also recognize that the final result will be a crash such as was witnessed in 1825, 1836, and 1847, and which in this country may be looked for with absolute precision once every eleven years. The whole population will nevertheless go on, each man believing that he will pause in time, and that his neighbor is to be the person who must suffer. In such a state of affairs all warnings are useless, since there is no difference of opinion as to the end. The only service that can be rendered is to remind the public from time to time of their actual position, so that, if they increase their commitments to an extrava gant extent, they may at least do so with a full knowledge of what they are undertaking. Thus far no danger has been incurred, but a retrospect of the enterprises of the past half year will show that the amounts already engaged to be furnished are considerable, and that when these shall have been doubled and trebled—as will, perhaps, be the case during the next six months—they will make an aggregate sufficient to absorb the disposable means of England for three or four years thereaf-Annexed is a list of companies introduced on the Stock Exchange since the 1st of January 1856:

The Times enumerates forty-three new enterprises introduced since the commencement of the year, and adds :

"The aggregate capital apparently demanded for the above is £23,490,000—a total which would already seem alarming, but that it admits of several important deductions. The schemes from No. 1 to No. 22 inclusive, are alone those which involve outlay in foreign countries. They amount to £19,110,000, and as several of them, such as the Lombardo Venetian Railway, the Italian Junction Bailway, the Bank of Switzerland, and the Societe des Clippers Français have been subscrib-ed jointly on the English and Continental Ex-changes, the sum will be by that means diminished about £6,000,000. Another million or two be estimated for the Bank capitals, which will probably not be required to be paid up in full. The actual amount, therefore, now promised to foreign countries may be set down within £11,000, 000. This will not appear extremely heavy, when it is recollected that in 1853 a sum nearly as large was undertaken to be supplied to one concern alone—namely, the Grand Trunk Railway of Canada-but it is of sufficient magnitude to produce a sensible effect, and, if it were in the shape of an immediate loan, instead of a number of works which will be spread over a few years, it would not fail to exert, as our recent experience regarding the Turkish loan may illustrate, a very decided and inconvenient influence on the money market. It is to be borne in mind, moreover, that these claims do not represent all that are in progress, since Australian and Canadian and a variety of other debentures are quietly negotiated almost every week, and there is likewise an advance of £1,000,000 to be made to Sardinia.

"With regard to the companies in the above list

er in abeyance or abandoned, while £2,100,by the National Discount Compar and several Banks, and is therefore in ne way diverted from public use. It is a singular fact that while the law of limited liability has been assailed on the ground that it would prove a stimulus to the wildest speculation, it has thus far led only to a few moderate, and for the most part useful projects, which may serve in their degree the healthful purpose of finding employment for our energies within the limits of our own shores."—London Times. July 4.

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American Railroad Journal.

Saturday, July 26, 1856.

Illinois Central Railroad.

The Illinois Central Railroad Company offer for ale \$900,000 of certificates, due 1st of January. 1858, bearing interest at 7 per cent., payable semiannually. These certificates are issued in anticipation of the installments to be received on the thirty thousand shares of privilege stock held at the option of bondholders, and which option expires on the 1st of Jan'y, 1858. The amount to be raised from this option stock is pledged for the redemption of the certificates now issued, and they are receivable in payment for said stock.

These optional shares are at a premium, and are likely to advance rather than fall.

Toledo, Wabash and Western Railroad.

The proposed consolidation of the Great Western; the Toledo, Illinois and Lake Erie; and the Wabash and St. Louis railroads, has been accomplished by the votes of the stockholders of the several companies.

The Locomotive.

No. 5.

BY THEODORE KRAUSCH, Civil and Mechanical Engineer. Locomotive boilers as at present built, are capable of resisting a pressure equal to 70,000 tons; in many cases exceeding this amount. This power acts in two directions,-longitudinally and vertically. To ascertain the amount of pressure in the former direction, we multiply the area of the tube sheets (assuming them to be equal to a cross section of the boiler,) by the units of pressure acting on them. For example: If the diameter of the cylindrical part be 48 inches, the sum of the units of the surface of one cross section is equal 1809.5. Assuming the pressure upon an unit of space to be equal to 200 lbs., the total pressure is 200×1809.5 =361.900 lbs. upon the cross section. This we have to multiply by two, which gives 723,800 lbs. as the whole pressure acting longitudinally.

To find the pressure acting against the periphery of the boiler, take the original figure of a circle, the polygon, the length of one side of which is equal to one inch. Multiply the number of sides by the length of the cylindrical part, and this product by the pressure on the square inch. The result will give the sum of the pressure acting on the periphery. The diameter of the boiler before mentioned, being 48 inches, and its circumference 150,7 inches, the latter is equal to a polygon of 151 sides,-150 of one inch each, and one of .7 inches. The length of the cylindrical part being 11 feet, is equal 182 inches. The steam numbered 28 to 44, whose operations are confined to home, there is little to call for remark. Their total is £4,380,000, and £1,000,000 of this is placed in the Imperial Hotel scheme, which is 26,400 lbs. The pressure acting on each side is $1 \times 132 \times 200 = 100$ lbs. The pressure, therefore, acting upon

the cylindrical part, is the sum of the pressure on all the side surfaces of the polygon.

In practice a shorter calculation is used-multiply the periphery of the cylindrical part of the boiler by its length, and the product by the pressure per square inch. Thus

 $159.7 \times 132 \times 200 = 3,978,480$ lbs. the force exerted.

The fire-box, the form of which is generally a rectangle, is inclosed in the boiler-its walls standing from 24 in. to 3 in. from the boiler sheets, and parallel to them. This intervening space allows the fire-box to be surrounded by water.

The advantage of this construction is the saving of heat and room. Stay-bolts, placed about six inches apart, (making a number of squares), are riveted to the exterior boiler sheets, giving the necessary strength to the fire-box. Each one of these stay-bolts is capable of resisting a pressure of about 15 tons, and, if the steam pressure amounts to 200 lbs. per square inch, a square (produced by the position of the bolts) resists a pressure of $200 \times 6 \times 6 = 7200$ lbs. Each bolt has to resist such a pressure. The proportion between the capability of resistance of the staybolts and the pressure acting upon them, is as 41/2: 1. It is also to be mentioned, that the flat surfaces above the tubes belong to the weakest parts of the boiler, and must be specially secured pany's books, showing expenditures to the present by stay-bolts.

Suppose, now, a boiler has been built according to all the foregoing rules. Is an engineer justified in recommending it? No! The boiler must first be proved able to resist a much higher pressure than that to which it is ordinarily to be subjected. The same experiment will show the quality of the work and the materials used.

Without such trial and result, no engineer is justified in recommending a boiler as perfect. [Some builders do not prove their boilers by hydraucic pressure, but by steam, the consequence of which we sometimes have to deplore]. Some governments require all boilers to be proved by hydraulic pressure before a commission of engineers; a very necessary regulation, and one which should be adopted in our country.

Carelessness, or superficial education is the reason that boilers, of different diameters, are made of the same thickness and quality of iron. Every practical man knows that the iron should increase in proportion to the diameter of the boiler; or, more plainly, a boiler of 4 ft. diameter requires iron just twice as thick as one of 2 ft. diameter,of course under equal pressure.

I lately had occasion to find the thickness of 11 ft. 6 in. long (made by the same builder). Both were of the same thickness.

When steam is worked at 200 lbs. pressure, the cylindrical part of the former boiler has to resist a force of about 420 tons greater than the latter.

No great improvements relating to the system of the boiler have been lately made, with the exception that the fire-box surface has been increased by extending it about 80 inches into the cylindrical part of the boiler; thus increasing the direst heating surface equally. The increase is about 25 square feet. For the purpose of strengthening boilers, and especially to secure them against sudden and unforeseen pressure, Mr. Fairbairn re-

commends, instead of stay bolts, angle iron; fast-INTERESTING TO RAILROAD MEN. ened on the end pieces.

Lately, the mischief arising from the use of thimbles, in regard to steam production, (diminishing the tube openings, and consequently reducing the draft through them,) has been removed, by extending the iron tubes about 3-16 of an inch beyond the tube sheets, and calking the iron.

Freehold and Jamesburg Agricultural Railroad.

The earnings of this road for the year ending May 31, last, were as follows:

81,700,0	From	From	I rigisolin La
Months.	Passengers.	Freight.	Total.
June	\$991.58	\$1,216.36	\$2,207.94
July	1,596.48	1,157.87	2,754.85
August	1,851.68	1,626.48	3,478.16
September.	1,449.42	1,891.33	3,340.75
October	1,007.73	1,729.62	2,727.85
November	986.11	1,463.04	2,449.15
December	999.36	1,838.04	2,337.40
January	. 838.20	1,053.47	1 921.24
February		1,358.29	1,992.74
March		1,813.59	2,618.85
April		2,278.20	8,249.58
May		1,876.10	2,835.87
S S	13,085.10	\$18,797.39	\$31,923.38
For carryin	o II S mail		40.89

\$31,923,38 We copy the following statement from the com-

CURRENT EXPENSES. 1,816.35 7,915.90 Car expenses.... Motive power.... Salaries 1,000.00 Office expenses Car repairs..... 638.69 Contingent expenses.... 659 84 Repairing track 1,664.16 Telegraph expenses...... Repairs to locomotives Damages 172.52

by warming of Resident for the deal	\$18,458.15
Net earnings	.\$13,465.23
Total cost of road and equipment	
Current expenses	45,444.90
Interest	6,208.40
Amount in hands of the Treasurer	5,066.17

\$275.782.20

The form receibrs have need as iono.	WO
Instalments on Capital Stock \$	130,341.52
Bonds sold	70,000.00
Gross earnings up to July 1, 1854	10,082.17
Passenger earnings since July 1, '54	27,394.44
Freight "	37,023.18
Mail " "	40.89

iron in a boiler of 47½ in. diameter and 13 feet long; and in another, 44 in. diameter, and only 11 ft. 6 in long (made by the same builder) Roth for year ending May 31, '56. 13,465 23

F - 1 BO . Del C . O Sec	Leader
Total net earnings	\$29,995.78
Interest paid	\$6.208.40
Paid on account of capital	18,721.21
Balance in hands of Treasurer	5,066.17
the firm and the latter whether the common of the con-	

ir cailroads extending across East Tennessee and Virginia, and Virginia and Tennessee Railroads.

\$29,995.78

The cars on the East Tennessee and Virginia railroad have reached Morristown, forty-four miles above Knoxville. The cars on the Virginia and Tennessee road are now running to Emory and Henry College, ten miles east of Abingdon, leaving a distance between the termini of the two roads, of about 110 miles.

on map paper can be sent by mail.

Address JAMES W. HILTON July 24th, 1856.

The Late Disaster on the North Pennsylvania Kailroad.

The recent terrible accident on this road has excited almost universal discussion as to the manner by which such disasters can be prevented. In the present case it would seem that by ordinary care on the part of the conductors the collision could have been avoided. But all experience shows that from incapacity, unfaithfulness, misconception of orders, inattention or mistake, conductors or engineers are never implicitly to be relied upon. Additional precautions against accident must be sought for, and used.

Of these, a double track appears the most obvious. But beside involving an outlay which few companies can afford, there is another much more effectual-a magnetic telegraph working betweenstations. With such, it can always be known whether or not the track be clear. The Erie railroad is a good illustration of what may be accomplished by a telegraphic line. No road, save one, in the United States has a business at all to be compared with it. Yet, it must be called a single track road. Nearly the whole of the Delaware Division has only a single track, for the reason that a double track upon it is hardly possible from the nature of the ground. Nearly all the traffic of the road passes over this division, yet we hear of no accidents upo it, -nor in fact upon the road. Its singular exemption from accident, and the ease and order with which its immense traffic is carried on, is due to its telegraphic line, by which every station master, and the Superintendent may know the exact position of each train moving upon the road.—We are assured by Mr.McCallum, that not only would it be impossible to work the road without a telegraphic line, but that with it, the capacity of the road, without any additions to its double track, is almost unlimited. The Company, we believe, do not prepose to lay down an additional track on this division, as they find no difficulty in conveniently passing over it their immense traffic.

A line of telegraph can be constructed, maintained and worked, at very low cost. With it, accidents from collisions may be absolutely avoided. No road should be without one. No company should complain for being censured, or for being mulcted in heavy damages, if they neglect such a cheap and effectual remedy for the most disastrous kind of accidents.

Memphis, Clarksville, and Louisville Rail-

Ground was broken on this road at the town of Clarksville, on Monday, June 28.

New York and Erie Railroad.

The work of tunnelling Bergen Hill for the Erie Railroad Company is rapidly progressing, and will be carried to an early completion. The east ap-proach has been cut in within forty or fifty feet of the end of the tunnel, and most of the shalfts are nearly half way down. The western approach is being pushed on very rapidly.

In the South and West, great difficulty is often found in getting secure foundations for railroad bridges over the rivers and cross gullies which exist. In sunny regions also wood, of a durable kind, is very scarce, and stone not to be had at all. The Trenton Locomotive and Machine Manufacturing Company, through their President, AARON H. VANCLEVE Esq., have lately taken a step in the right direction to surmount those difficulties. They have introduced the screw-pile for piers, and thus are able to obtain a secure foundation in any formation of earth, and erect thereupon iron piers, most durable in character, of a graceful appearance, and presenting the least possible obstruction to the water-way of the stream. We copy, from the Southern Argus, the following notice of the piers of a bridge which the Company have just completed for the Norfolk and Petersburg Railroad Company :-

SOUTH BRANCH BRIDGE.—The contractor, Mr. A. H. Vancleve, having completed the construction of the iron piers in this bridge, has surrendered the work to the railroad company. The six piers have been constructed in a masterly manner, and they now stand out in the stream a lasting monument of genius and skill.

It is the only work of the sort in the country, or indeed, in the world. The screw-pile has be-fore this been employed in the construction of light houses in England and America; but never previously in building bridges across streams. The experiment on the South Branch will evidently prove emicently successful.—The plers are light, airy, graceful looking structures—and at the same time, all tests show them to be as firm

One of the most striking features in the struc-ture will be accurate adjustment. The alignment of the piles and braces has the appearance of ex-act mathematical arrangement. It is a curiosity to stand on the shore, and sight the different por-tions of the work all the way across the river. The diagonal braces when viewed in range, appear like a single rod; and the tall wrought iron piles (six inches in diameter) when sighted together look like a single pile.

It is needless to say, that such results give en-tire satisfaction to all who are interested in our railroad. We regard this iron bridge as the pio-neer of hundreds of similar structures throughout

Railroad Earnings.

For the nine months of the railroad year, the following is the comparison:

N. Y. CENTRAL TRAFFIC.

design . Direct	1855-6.	vs. 1854 5.
October	\$786,421	\$649,420
November	674,941	567,227
December	668,958	482,851
January	461,807	405,125
February		816,274
March		588,257
April	709,963	654,269
April	696,918	633,381
Jane	654,842	621,486
	ATOMES HER	The Contract of the Contract o

The receipts of the Ohio and Pennsylvania railroad for the month of June exhibit a healthy in

COLUMN TO SERVICE STATE OF THE PARTY OF THE	4.20 (10 to 0.51 to 51	0 1 m 1 2 m	a stray Tax	FE
Passanger	receipts for	r Tune	8	57 678 95
Y mandrid	Indiana in		NUTSHEET WAY	Transfer of the
Preight re	ceipts for .	nne	COLUMN DO	24.422.91
	Charles of the Control of the Control	the state of the s	The second second second	rakal imirekteleka

	Section B	a net from	do 2. 42	CTURES CHARLE	CA EMBIDATIO
-du osno-s	HILL VID	appleted	es virge	TOMOC	-
ha dood wil	A way were	out webster.		202	,101.60
Total re	conints f	or Inne	1855	1139075	428 68
STA MOVESTON	SOUTH TO	FIRED DE L	ITE OF BUILDING	Brods	to being
at diamen	Section of the second				-

em railroad has been published. It notices the sue last December of \$500,000 of Income bonds, with the proceeds of which it is thought the road may be put in complete repair. The whole line is now laid with heavy T rail; save about six miles of flat iron, which will soon be removed. During the last year \$386,000 has been expended in im-

The receipts	for the year ending	June	ins out boov
1856, have	been		\$730,407.18
	for the year ending		
80, 1855,	were		645,827.57
Garage 10	AT MITTER TO THE WAY	10	AGURUADA DA L

Increase, about 12 per ct	780.407.18
Net	389,458.10

Net, after paying interest and expenses \$38,027.52 The Pennsylvania railroad receipts for the month of June were as follows:

senger receipts..... 122,997.51

Receipts from Jan'y 1, 1856, to July 1, 1866.....\$2,505,587.16

Increase.... The earnings of the Indianapolis and Cincinnati railroad for the month of June were:

We annex a statement of the aggregate business of the Illinois Central railroad company for the six months ending June 80, showing an increase of \$428,797, nearly 80 per cent on the same months of last year, and an estimate of the years'

business at the same rate of increase : COMPARATIVE STATEMENT of Earnings for the first

002.78 ba	1855.	1856.	Increase.
January	\$57,088.10	\$185,440.88	\$78,852.78
February.	59,824.20	119,000.00	59,675.80
March	92,622 55	187,000.00	44,377.45
April	113,444.11	190,820.89	76,876.29
May	121,484.16	214,648.24	93,209.08
June	128,421.26	194,727.82	71,806.06
26.138		2001 201 20	-400 FOR 40

Total \$567,834.88 \$991,181.78 \$423,797.49 Increase equal to 75 per cent. Gross earnings for first 6 mos. of 1855. \$567,834.38 last 964,784.48

Total.....\$1,582,118.81 Gross earnings for first 6 mos. of 1855. \$991,131.78 last

Increase in the same ratio as above. . 1,685,476.05

Total \$2,676,607.88

Iowa.

The Legislature of this State is in session for the purpose of acting upon the recent grants of land made by the State Government to aid in the construction of four railroads extending across the State from the Mississippi to the Missouri Rivers. The following is an extract from the Governor's Message calling the Legislature together:

Total receipts for June, 1855.... 78,433.68 within the probable lines of the grant, were withdrawn from market, and there is now an entire suspension of business in all of the United States

corah and Fort Dodge. The interest of the State require that the lands not embraced within the grant should be opened to purchase and settlement at as early a day as practicable. Under the construction of the Commissioner of the General Land Office, the title of the State does not rest in the alternate sections until the several roads have been surveyed and maps of their location properly certified and returned to his office. He has therefore urged upon me the necessity that the State take immediate measures to secure the lands granted by an early compliance with the provisions of the Act of Congress, and with the instructions of his department.

"Hence, I have convened you, gentlemen, in

special session, that you may determine—"1st, Whetler or not the State will accept the grant made under the act of the 15th of May last; and if so,

"2d, Whether the lands granted shall be transferred to any specific railroad companies, and if so, to what companies they shall be transferred;

"8d, Upon what terms shall the transfer be

Maysville and Lexington Railroad.

The Court of Appeals of Kentucky have confirmed the decision of the lower court in the case of the Maysville and Lexington railroad company; consequently the sale of the road under the foreclosure of the bondholders stands good.

Railread Accommodations at Toledo.

Those who are familiar with Toledo and its enfrons need not be told that the island known as the Middle Ground, on which the railroad is now making such splendid erections, was formerly a shoal on the Maumee river, prolific in water vege tation, and not supposed to be greatly beneficial to the health of the city. It was sometimes called Baldwin's Island, though it was not, in fact, an Island, as it was covered with water and not surrounded by it. But this sunken ground or shoal, under the magic touch of Jarvis, has been converted to the purposes of commerce in a way which must make our cary famous abroad, as having the most complete railroad arrangements in the whole country.

A railroad track through a city is always a nuisance. Let it be in a corner ever so dark; or on the bank of a river; or even in a cut or a tunnel, it is still within the range of carts, drays, children, &c., and must be the scene of frequent and fatal accidents. It is, therefore, common for a railroad terminus to be quite on the suburbs of a city, at a long and very inconvenient distance from the business centre, subjecting passengers to the additional expense of carriage hire, and to much anxiety by reason of a dependence on hackmen and omnibus drivers, who have generally a far higher regard for filling their pockets than for consulting the convenience of travelers.

But the appropriation of the Middle Ground to railroad purposes, has obviated every difficulty of this kind. It was purchased by the Southern Chicago line, some years ago, and has been filled in and made available at a very heavy expense. It now makes a long narrow island, containing some twenty-five acres, stretching through the river longitudinally, and separating all the opera-tions of the road from the main shore, while it has an easy communication with that shore by means of a swing bridge, which completely commands the right of way. The tracks of the various roads the right of way. The tracks of the various roads all enter the island at its upper extremity, and have their termination in the great depot at its lower end, and within a stone's throw of the very heart of the city. No arrangement could be finer or better contrived for the convenience of the traveling public.

But the interests also required that the Lake and railroad commerce, already immense and ra-pidly increasing, should be combined so as to give the greatest possible facility to the business of transportation. Some six or seven hundred miles of density draining the products of the richest valleys in the West, have their terminus at Toledo; and six or seven different railreads, from the North, the South, the East, and the West, culminate here with the products gathered from a circuit of a thousand miles. Commerce, therefore, demands an easy transition from the car to the

in

boat, and from the boat to the car.

To answer this demand the Middle Ground has been skirted with immense docks and studded with immense store houses. The dockage room already extends two thousand feet and can be stretched three or four times that distance, if circumstances require it. About a thousand feet is also occupied with permanent storehouses, including a substantial brick emigrant house and other conveniences. There are also two immense grain houses, built with all the modern improvements and a large steam engine by which their lofts are filled and emptied. These erections are of the most substantial kind and so arranged that the work of loading and unloading can be performed with the least possible outlay of manual strength,

The Freight Depot which, as we have said, is about a thousand feet in length, stretches along the edge of the dock, and the cars come in under shelter and unload on one side, while the boat, a few feet distant, lies at the dock, ready to swallow up the products on the other side.

The Passenger Depot is on the city side of the Island, and though very large, will probably be lengthened two or three hundred feet before many years. It is now 480 feet long and 160 broad. It is divided into two parts, the trains of the east roads taking one side and the trains of the western

roads the other side.

The passage way from one side of this depot to the other is through the public hall of the Island House where the ticket offices are located. This hall is on a new plan and embraces an idea which will be largely copied. The lower rooms of the Island House are handsomely fitted up for the convenience of passengers and answer the double purpose of sitting rooms for gentlemen and ladies who wait for the cars, and of common parlors for those who occupy the house. The office of the clerk is on the floor, and the various rooms are always under the supervision of watchful eyes, so that they have all the neatness and good order of a hotel drawing room. The sitting room for gentlemen is on one side of the hall and the ladies' parlor on the other; and there is besides a bar-ber's shop, a baggage room, and any quantity of wash bowls with living fountains of water pouring into them, so that the traveler can enjoy the luxury of a wash without much trouble to any body. All these conveniences are public and at the service of the traveler.

On the floor above is the great dining hall which we should think, will seat two or three hundred persons at table. It is kept by Mr. R. B. Angier, late of Cleveland, who seems to under-stand his business and provides his table liberally with good things to eat and with polite and attenwith good things to eat and with politic and attentive waiters who know how to administer to the wants of hungry travelers. Above the cining room are the sleeping rooms which are sufficiently large and comfortably furnished.

The hotel is a wonderful convenience to the traveller. If he is obliged to wait a few hours, a

night, or a day, it furnishes him with a comfortable home, without going half a mile in a hack to look up a public house and to be sheared by two or three classes of sharpers. He can have his baggage stowed or sent up to his room and stay the time required, and be on hand at the sound of the whistle to take the desired train.

But even this is not all. Though the Middle Ground belongs to the Southern road, an arrange-ment has been made with all the other roads by which the erections are used in common under certain regulations, so that all the cars that come to our city comg in on the Island tracks and stop at the same station. There is no going half a mile or a mile, in a hack, to another depot, or running

off after intelligence to a distant quarter of the city. The Lake Steamers start from the Middle Ground; the cars east, west, north and south start from the same depot on the Middle Ground; and the Middle Ground is just about the middle of creation, from which a man can put out in any conceivable direction, and take either of the four winds of heaven, for the uttermost parts of the

New York Central Railroad.

The following comparative statement of receipts from passengers and freight during the months of May, 1855 and 1856, speaks well for the high character of the management of this truly impe rial work, and the great resources of its line of

1856.....\$696,918 86

Extension of the Southwestern Railroad

At a special meeting of the Board of Directors of the Southwestern Railroad Company—present, R. R. Cuyler, President, Wm. A. Black, John W. Anderson, Wm. S. Holt, T. M. Furlow, Robert A. Smith, Directors—the following resolutions were

read and unanimously passed:

Resolved, That the President be, and is hereby requested and instructed to cause a survey to be de, forthwith, for the extension of the railroad of this company from Americus to Cuthbert, Randolph County, and a survey, also, from Sumter City to Cuthbert.

Resolved, That if a satisfactory arrangement can be made for the transfer by the Georgia and Florida Railroad Company of their road from Americus to Sumter City to this company, so as to make the same part and parcel of the South-western Railroad, then the extension will be made from Sumter City to Cuthbert—otherwise, from

Americus to Cuthbert.

Resolved, That so soon as the survey and loca tion can be made, twenty miles of the extension be placed under contract, to be paid—one-half in cash and one-half in the stock of the Southwestern Railroad Company—such stock to come in on the same terms with the new existing stock, so soon as the said twenty miles of extension shall be opened for transportation and travel.

Resolved, That this company, by the preceding undertaking, contributing at least three hundred thousand dollars towards the further development thousand dollars towards the further development of Southwestern Georgia, by actually building, of itself, unaided by the people, their road to within a distance of twenty miles from Cuthbert and forty from Eufaula, and with less than forty from Fort Gaines—feels that the people of all these places and of the country tributary to them, respectively should unite themselves to the Southwestern railroad, and, through that road connect and identify themselves with Macon and Savannah-with the Seat of Government, the mountain country of Georgia and the general railroad system of the

Resolved, That the preceding resolutions be com-municated by the President to the meeting which has been salled to be held at Cuthbert on the approaching anniversary of American Independence True extract from the minutes,

JNO. T. BOIPEGILLET, Sec'y. This action of the Southwestern Company, it strikes us, has a most important bearing upon the system of Internal Improvement in the lower half of the State of Georgia. Whilst the Brunswick and Florida Railroad Company and the Savannah, Albany and Gulf Company have respectively, beer endeavoring of late, to embark the people of Enfaula, of Cuthbert and Fort Gaines in the wild scheme of building from the Chattahoochee through Albauy to Brunswick or Savannah—a scheme manifestly against the interest of the Southwestern company, and whilst no specific aid has been rendered by the seaboard to carry out the scheme—the Southwestern company has con out with the means and the determination to s

their road extended to Cuthbert. This move their road extended to Cuthbert. This movement we think most important for these reasons: It determines the future policy of the Southwestern Company. It prompts Enfaula and Fort Gaines to instant movement towards Cuthbert. It is calculated topicserve the symmetry and usefulness of the ratiroad system of the State. It cuts of the hope of Brunawick from the plan of lojuring the Southwestern company. It gives security and permanency to Southwestern Railroad stock, in which this city and its people are interested to the extent of three-quarters of a million of dollars.—It is calculated to extend the business and increase the wealth of Macon. It hurts no existing interest, but benefits all. It will fix Macon as the travelling centre of the State. It will tend to increase the revenues of the Central Road, in which some three millions of Savannah capital are embarked. Finally, it will give quiet and well grounded hope. Finally, it will give quiet and well grounded hope and eventual success to those portions of Georgia and Alabama just now so much disturbed and perplexed on the subject of their connection with the sea. We hall the movement with joy and satisfaction.—Sav. Rep.

The Fiorida Battroad.

A gentleman connected with the operations of A gentleman connected with the operations of the Florida R. R. has given us some interesting de-tails respecting its progress and prospects. As may be recollected, it connects Fernandina, on the Atlantic, with Cedar Keys, in the Gulf of Mexico, a distance of 140 miles. The road was only com-menced on the 1st of October last, and there is menced on the 1st of October last, and there is already thirty miles of it graded and ready for the iron, and 1½ miles of trestle bridging, and the only draw-bridge on the line of the road completed. Such rapid progress is highly creditable to the contractors, commencing, as they did, at an isolated point, having to collect from remote sources laborers, tools, provisions, and materials of every description.

One thousand tons of iron for this road have been shipped from New York to Fernandias. Four thousand tons of iron have recently been purchased in England for the road, fifteen hundred of which have been already shipped for Fernandina, and the balance will be shipped during this month. These purchases will iron fifty miles of the road, and it is the intention of the Company to have it all laid down by the 1st of Feb'y next, at farthest, so as to have fifty miles of the road opened for business at that time. A locomotive and cars will be shipped from Philadelphia for Fernandina during the present month, and will aid greatly in facilitating the construction of the road. About three hundred hands are now employed, to be increased in October to six hundred, and the work will be pressed to its complation with the utmost energy. It is the expectation and determination of the Company to have it finished and in operation in two years from this

Fernandina is situated at the northern point of Amelia Island, at the mouth of St. Mary's Sound. It has an admirable barbor, with an ample depth of water for a large commerce. It is about 152 miles from Charleston, or about twelve hours run by steamers. The road across the Peninsula (140 miles) can be readily travelled in four and a half hours, and the time between Cedar Keys and New Orleans, by steamers, will not exceed twenty-four hours. This will make the entire time between Charleston and New Orleans, by this route, about

fourty-one hours.

The pressing importance of establishing, at the earliest possible time, a direct steam communication between Charleston and Fernandina, is apparent. This will, to a great extent, counteract the ections mistake which was made in permitting. Charleston to be thrown off the great line of travel between the North and South by the construction of the Wilmington and Munchester railroad. Fernandina will be the outlet of a valuable amount of produce, even during the coming season, and when the railroad is finished, it must, inevitably, be a great thoroughfare of travel.—
Charleston Moreory.

The great problem of placing the old world and he new in a telegraphic connection is soon to be ested. Next week the United States steamer Arctic will sail from this port with a competent scientific corps on board, to complete the necessary oceanic surveys, in which Lieut. Berryman, the commander of the present expedition, has already been engaged. It has been shown by Lieut. Manry that between Newfoundland and the coast of Ireland there is, for a considerable portion of the distance, a comparative elevation of the bot-tom, which he denominates the telegraphic plateau. Along this it is proposed to carry the wires of the submarine telegraph; the distance between these two points is a little over 1,600 geographical

In the view of Lieut Macry, with whom we have conversed, and who gives his active co-operation in the enterprise, there is no reason why this great work cannot be completed in one year from the present time. The wire can be made during the approaching winter, so as to be in readiness for the laying down next spring. It was upon the plateau above noticed that the Brooke's celebrated sounding apparatus brought up its first tropbies from the bottom of the sea. These specimens Lieut. Berryman and his officers judged to be clay, but upon being submitted to microscopic examin-ation, they were found to consist of calcereous shells, unmixed with sand or any foreign substance. It was deemed probable that the occupant lived the surface of the water, but that the shells settled to the bottom after death. According to Lieut. Maury, the inference is, that in the place of their deposit, if anywhere, the waters are at "There was not motion enough there to abrade these very delicate organisms, nor current enough to sweep them about and mix up with them a grain of the finest sand, nor the smallest particle of gravel torn from the loose beds of the debris that here and there strew the bottom of the sea. This plateau is not too deep for the wire to sink down and test upon, yet it is not so shallow that currents or icebergs or any abraiding force can derange the wire after it is once lodged." Icebergs have been known to ground at a depth of 700 feet. The month of June is the most favorable part of the year for laying the submarine wire. Though fogs are most frequent at that time, gales seldom occur to roughen the sea. Cyrus W. Field and Peter Cooper (the New York, Newfoundland and London Telegraph com-

pany) are the gentlemen principally concerned in the success of the undertaking; and the general government, while promoting scientific research, has wisely determined to afford encouragement to private enterprise, in the practical application of scientific principles, by employing the United States propeller Arctic, (well known in connection with Polar explorations) in taking soundings on the telegraphic plateau, preparatory to laying the cable. Several of the officers of the Arctic are peculiarly qualified for the service. Beside Lieut. Strain, whose narrative of sufferings and achieve-ments in the Isthmus of Darien is well known, she will take out Mr. Brooke, U. S. N., the inventor of the sounding instrument bearing his name, by which specimens of the bottom are furnished; also, Midshipman Mitchell, who was with Captain Berryman on the United States aurveying brig Delphin, and became remarkably expert in ob-taining deep soundings. From the experience then had, it is expected that the average depth of water on the plateau will be from 2,000 to 2,800 feet. The officers of the Arctio are as 6.12 more

water on the plateau will be from 2,000 to 2,800 feet. The officers of the Arctic are as follows:

1. Lieut. Commanding—O. H. Berryman. 2. Lieutenant—J. G. Strain. 3. Acting Master—J. G. Mitchell. 4. Passed Midshipman—C. F. Thomas. 5. Midshipman—J. C. Barnes. 6. 1st Assist. Engineer—H. Newell. 7. 3d Assist. Engineer—L. Williams. 8. Draftsman—A. Von Burck.

The Arctic will first steer north for Newfoundland, taking out provisions for ninety days, and a moderate supply of coal, expecting to replenish the latter at Newfoundland, as may be found necessary. The instruments furnished are the most

important part of her equipment. First, is Brook's instrument, consisting of an iron spindle about three and a half feet in length, the lower extremity of which is a tubular, filled with the open barrels of quills. This spindle passes through either a perforated 68 pound shot or a pear shaped leaden weight (100 or 150 pounds) two feet in length, suspended by brass wire. The spindle projects below the weight, so that when the latter touches bottom, the wire unbooks by a very simple, yet ingenious contrivance, leaving the weight detached. Above the weight is secured "Massey's attached," for determining the depth—a vertical propeller turned by the downward metion of the lead, and which indicates the depth on a graduated dial, by showing the number of revolutions made by the propeller. A clam is raisen while the lead is descending, and falls when the motion ceases, stopping the propeller, so that no false in-dications can be given by the lateral current. Thus three elements may be employed to form the basis of a calculation of depth; the length of time required for a weight to descend; the position of the indicator, and the measured length of the line,-From the lower end of the spindle, specimens are found, adhering to the tallow lining of the quills. The sounding line is being made at the Government ropewalk in Boston, which is the largest in the country, and will comprise 10,000 fathoms. A steam reel, with which to use the line is making in this city. It will be run by a small engine placed on deck. It is supposed that a depth of 5,000 fathoms, or nearly five miles, may be measured without breaking the line, as no part of the sounding apparatus is returned, but the spindle. Besides thermometers for determining the temperature of the ocean at the various depths, are other instruments designed to elucidate the physical geography of the ocean.

The description of wire to be used is not fully decided upon, though there is no doubt but that the one adopted will be smaller, lighter and more pliable than the one lost a few months ago on the ceast of Newfoundland. Still another wire, of much the same character, was lost while attempting to connect Corsica with the North coast of Africa. Such an one as is required can be manu-factured at the rate of eighteen miles a day. A light flexible wire laid in the Black Sea, between Varna and Balaklava, was laid without difficulty, the steamer employed going five miles per hour

without once stopping.

Should the survey on which the Arctic is now employed terminate as favorably as anticipated it is probable the wire will be laid at the earlies practical day. Profiting by the experience of the past, it is determined to employ two steamers in laying the wire. They will proceed from England, having on board equal portions of the line. Uniting these, each will proceed direct to the opposite shores, passing out the cable as she sails, thus avoiding the fatal difficulty before encountered when it was attempted to tow the vessel baying the cable on board, and, a gale arising, both of them became unmanageable. Furthermore, the time required to lay the line is reduced one-half by the process now proposed, so that six days is considered a liberal allowance for the execution of the work. It is thought the wire will offer little impediment to the progress of the steamers.-A curious circumstance will be the manner of maintaining telegraphic communication between the two vessels while this work is going on, it being in view to connect the extremities of the wire on each ship with galvanic batteries, so that the electric current will pass through the huge pile on each vessel, as well as through all such portions as may be submerged, conveying intelligence in-stantaneously and uninterruptedly, uninfluenced by apparent obstacles or confusion. The progress of each vessel can thus be regulated with refer-ence to their relative position, or other incidental The same parties commenced laying a wire seven-ty-five miles in length, on the 2d mst., between Cape Ray and Cape Breton, and have new prob-ably completed their work, as assessed and make the

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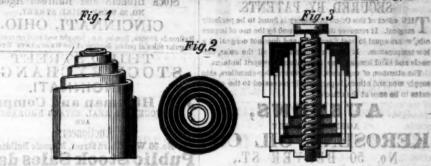
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6.	88	15	66	1	to 1	19.	86	28	46	K	to 1
6.	46	15	66	114	to 1	20.	1 41	80	44	1	to 1
8.	44	16	- 11	K	to 1	21.	45	30	44	14	to 1
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